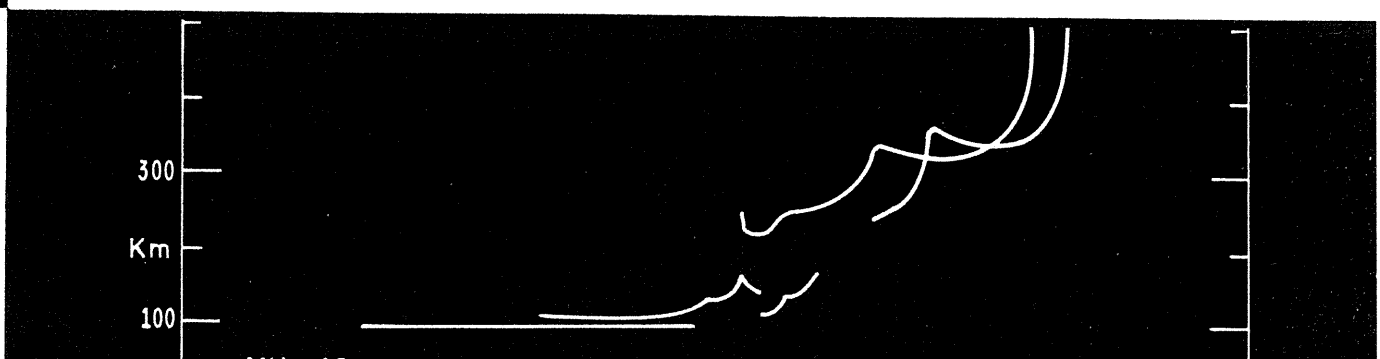
REPORT UAG - 85

WORLD DATA CENTER A
for
Solar-Terrestrial Physics

CATALOG OF IONOSPHERE VERTICAL SOUNDINGS DATA

July 1982



WORLD DATA CENTER A
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418 USA

World Data Center A consists of the Coordination Office and the following eight Subcenters:

COORDINATION OFFICE
World Data Center A
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, D.C. 20418 USA
[Telephone: (202) 334-3359]

GLACIOLOGY (Snow and Ice)
World Data Center A: Glaciology (Snow and Ice)
Cooperative Inst. for Research in Environmental Sciences
University of Colorado
Boulder, Colorado 80309 USA
[Telephone: (303) 492-5171]

MARINE GEOLOGY AND GEOPHYSICS (Gravity, Magnetics, Bathymetry, Seismic Profiles, Marine Sediment and Rock Analyses):

World Data Center A for Marine Geology and Geophysics
NOAA, D64
325 Broadway
Boulder, Colorado 80303 USA
[Telephone: (303) 497-6487]

METEOROLOGY (and Nuclear Radiation)
World Data Center A: Meteorology
National Climatic Center
Federal Building
Asheville, North Carolina 28801 USA
[Telephone: (704) 258-2850, ext. 381]

OCEANOGRAPHY
World Data Center A: Oceanography
National Oceanic and Atmospheric Administration
2001 Wisconsin Avenue, NW
Page Bldg. 1, Rm. 414
Washington, D.C. 20235 USA
[Telephone: (202) 634-7249]

ROCKETS AND SATELLITES
World Data Center A: Rockets and Satellites
Goddard Space Flight Center
Code 601
Greenbelt, Maryland 20771 USA
[Telephone: (301) 344-6695]

ROTATION OF THE EARTH
World Data Center A: Rotation of the Earth
U.S. Naval Observatory
Washington, D.C. 20390 USA
[Telephone: (202) 254-4547]

SOLAR-TERRESTRIAL PHYSICS (Solar and Interplanetary Phenomena, Inospheric Phenomena, Flare-Associated Events, Geomagnetic Variations, Aurora, Cosmic Rays, Airglow):

World Data Center A for Solar-Terrestrial Physics
NOAA, D63
325 Broadway
Boulder, Colorado 80303 USA
[Telephone: (303) 497-6323]

SOLID-EARTH GEOPHYSICS (Seismology, Tsunamis, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Magnetic Measurements, Paleomagnetism and Archeomagnetism Volcanology, Geothermics):

World Data Center A for Solid-Earth Geophysics
NOAA, D62
325 Broadway
Boulder, Colorado 80303 USA
[Telephone: (303) 497-6521]

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions. WDC-A is established in the United States under the auspices of the National Academy of Sciences. Communications regarding data interchange matters in general and World Data Center A as a whole should be addressed to World Data Center A, Coordination Office (see address above). Inquiries and communications concerning data in specific disciplines should be addressed to the appropriate sub center listed above.

WORLD DATA CENTER A
for
Solar-Terrestrial Physics

REPORT UAG-85

CATALOG OF IONOSPHERE VERTICAL SOUNDINGS DATA

Edited by

Raymond O. Conkright and H. Irene Brophy
National Geophysical Data Center
NOAA, Boulder, Colorado

July 1982

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Boulder, Colorado, USA 80303

CONTENTS

		Page
	PREFACE	iii
I.	INTRODUCTION	1
II.	INSTRUCTIONS FOR ORDERING DATA	1
III.	LISTS OF STATIONS.	3
	1. Alternate Name List	3
	2. Alphabetical Listing	4
	3. Paired or Grouped Stations	9
IV.	DATA TYPES AND KEY TO SYMBOLS	10
V.	ALPHABETICAL LISTING OF DATA HOLDINGS.	11
VI.	DATA PUBLICATIONS.	105
VII.	DATES OF SPECIAL OBSERVATIONAL INTERVALS	106

PREFACE

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions (ICSU). They were established in 1957 by the International Geophysical Year Committee (CSAGI) as part of the fundamental international planning for the IGY program to collect data from the numerous and widespread IGY observational programs and to make such data readily accessible to interested scientists and scholars for an indefinite period of time. WDC-A was established in the U.S.A.; WDC-B, in the U.S.S.R.; and WDC-C, in Western Europe, Australia, and Japan. This new system for exchanging geophysical data was found to be very effective, and the operations of the World Data Centers were extended by ICSU on a continuing basis to other international programs; the WDC's were under the supervision of the Comite International de Geophysique (CIG) for the period 1960 to 1967 and are now supervised by the ICSU Panel on World Data Centres.

The current plans for continued international exchange of geophysical data through the World Data Centers are set forth in the Fourth Consolidated Guide to International Data Exchange through the World Data Centres, issued by the ICSU Panel on World Data Centres. These plans are broadly similar to those adopted under ICSU auspices for the IGY and IQSY.

Functions and Responsibilities of WDC's

The World Data Centers collect data and publications for the following disciplines: Glaciology; Meteorology; Oceanography; Rockets and Satellites; Solar-Terrestrial Physics disciplines (Solar and Interplanetary Phenomena, Ionospheric Phenomena, Flare Associated Events, Geomagnetic Phenomena, Aurora, Cosmic Rays, Airglow); Solid-Earth Geophysics disciplines (Seismology, Tsunamis, Marine Geology and Geophysics, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Rotation of the Earth, Magnetic Measurements, Paleomagnetism and Archeomagnetism, Volcanology, Geothermics). In planning for the various scientific programs, decisions on data exchange were made by the scientific community through the international scientific unions and committees. In each discipline the specialists themselves determined the nature and form of data exchange, based on their needs as research workers. Thus the type and amount of data in the WDC's differ from discipline to discipline.

The objectives of establishing several World Data Centers for collecting observational data were: (1) to ensure against loss of data by the catastrophic destruction of a single center, (2) to meet the geographical convenience of, and provide easy communication for, workers in different parts of the world. Each WDC is responsible for: (1) endeavoring to collect a complete set of data in the field or discipline for which it is responsible, (2) safekeeping of the incoming data, (3) correct copying and reproduction of data, maintaining adequate standards of clarity and durability, (4) supplying copies to other WDC's of data not received directly, (5) preparation of catalogs of all data in its charge, and (6) making data in the WDC's available to the scientific community. The WDC's conduct their operation at no expense to ICSU or to the ICSU family of unions and committees.

World Data Center A

World Data Center A, for which the National Academy of Sciences through the Geophysics Research Board and its Committee on Geophysical Data has over-all responsibility, consists of the WDC-A Coordination Office and seven subcenters at scientific institutions in various parts of the United States. The GRB periodically reviews the activities of WDC-A and has conducted several studies on the effectiveness of the WDC system. As a result of these reviews and studies some of the subcenters of WDC-A have been relocated so that they could more effectively serve the scientific community. The addresses of the WDC-A subcenters and Coordination Office are given inside the front cover. There are very close connections between WDC-A for Solar-Terrestrial Physics and WDC-A for Rockets and Satellites, which exchange solar-terrestrial geophysical data; if it is more convenient, data may be sent to one WDC-A subcenter through the other one.

The data received by WDC-A have been made available to the scientific community in various ways: (1) reports containing data and results of experiments have been compiled, published, and widely distributed; (2) synoptic-type data on cards, microfilm, or tables are available for use at the subcenters and for loan to scientists; (3) copies of data and reports are provided upon request.

Catalog of Data

All the data associated with ionosphere vertical soundings, which have been received by WDC-A, are listed in this catalog. This catalog supersedes all previous WDC-A catalogs for these data.

World Data Center A Coordination Office
July 1982

I. INTRODUCTION

This catalog covers ionospheric vertical soundings data, the discipline listed as B.1 in the ICSU "Guide to International Data Exchange Through the World Data Centres". The catalog lists all B.1 data held at World Data Center A for Solar-Terrestrial Physics (WDC-A/STP), some B.1 data held elsewhere and all vertical sounding stations known to have operated.

The entries for data stored at another location were made based on information provided by others and WDC-A/STP cannot attest to the condition, quality, or completeness of these data. However, as is done for data held at WDC-A/STP, all efforts will be made to assist the user in obtaining data held elsewhere.

The catalog is designed for the user and provides the kind of detail normally needed. However, if more details are required than are given in Section V or other parts of this publication one should not hesitate to make contact with WDC-A/STP through those names listed in Section II for further information.

II. INSTRUCTIONS FOR ORDERING DATA

Requests for data indicated in this catalog should be addressed to:

World Data Center A for Solar-Terrestrial Physics
NOAA/NGDC/EDIS D63
325 Broadway
Boulder, Colorado 80303, U.S.A.

Telephone requests for data and/or information may be addressed to Mr. Ray Conkright (303) 497-6414 or Miss Irene Brophy (303) 497-6469.

Price List:

35 mm film copies of bottomside ionograms on 35 mm film normally supplied in 500 to 1000 ft. lengths	$ 0.20 per ft.
Cutting and splicing charge for any other than standard length of 35 mm film described above	11.30 per interval
Ionospheric data tabulations on microfilm (hourly values of up to 15 characteristics)	31.00 per station-year
Ionospheric hourly values plus median ionospheric sounding data on magnetic tape	144.00 per tape (plus tape cost)*
Preparation of 35 mm microfilm of data sheets (camera negative)	0.50 per frame
Microfiche copy of existing microfiche	1.50 per microfiche
Electrostatic copies of data sheets - letter size (8-1/2" x 11") (reproduced from original size or larger)	0.75 per sheet (see note 1)
Full-size electrostatic copy of data sheets longer than 11"	1.00 per ft.
Electrostatic copy prepared from 35 mm microfilm - 8-1/2" x 11"	1.80 per sheet
Photographic negative	prices on request
Glossy prints (8" x 10") of existing negative	12.00 per print
Magnetic tapes (new blanks)	current cost
Tape-to-tape copy of magnetic tape (if blank tape supplied and no computer processing time or other expense)	85.00 per tape
Interpreted duplicates of punched cards on file	30.00 per thousand
Keypunching of tabular data	price on request
Computer printout from existing tape or cards	40.00 per 100 pages
Ionospheric electron density, N(h) profiles calculated from ionograms	13.00 per profile
Monthly hourly composite N(h) profiles prepared on demand	26.00 per profile

Note 1 : In some cases we are able to offer price reductions for large orders involving the same kind of data preparation when the volume reduces the handling or processing costs per unit. This can apply to any of the above. For example, for electrostatic copies of data sheets, the price is reduced from $0.75 to $0.65 per sheet for quantities of 50 or more sheets in a single order.

Note 2 : There is a minimum charge of $20.00 per order.

Note 3 : Mailing or shipping costs may be added, depending on the size of the order.

Note 4 : Checks or money orders should be made payable in U.S. currency to Department of Commerce, NOAA/NGDC, and mailed to the address shown above. They must cover the entire cost including bank charges.

Note 5 : Prices are subject to change.

*[Note : The price for selected retrieval from these tapes depends on data requested (station, date, or characteristic) and reformatting required. Estimate will be furnished on request.]

III. LISTS OF STATIONS

In this Section are the names and coordinates of all the stations listed in this catalog. The explanations of the various lists are as follows:

1. Alternate Name List: This list gives other names by which a station is known, together with the name we have used in this catalog. They appear in alphabetical order by the alternate names of stations followed by the names used in this catalog.

2. Alphabetical Listing: This shows all known stations by the name used at WDC-A, listed in alphabetical order. All stations will not be represented by data entries in the catalog tables given in Section V. In addition to geographic coordinates, the two letter codes used on ionograms and the alphanumeric codes used with data in computer format are indicated for all stations for which such an assignment has been made. Dates of stations opening and closing are given as they are recorded at WDC-A.

3. Paired or Grouped Stations: This list gives some of the cases where two or more nearby stations have operated for successive periods. Thus, for many research purposes the later station is a continuation of an earlier one. In the data catalog the stations are sometimes combined under a catalog name and the names given in this list are treated as alternate names: Part 1 of this Section gives the correspondence between names.

1. Alternate Name List

ALTERNATE NAME	CATALOG NAME
Akita-Ken	Akita
Akita-Shi	Akita
Akrotiri	Cape Zevgari
Amundsen-Scott	South Pole
Baffin Island	Clyde
Base General Belgrano	Belgrano
Bas Roi Baudouin	Baudouin
Bekescaba	Budapest
Belgrade	Beograd
Belmar	Fort Monmouth
Beltsville	Washington
Belvoir	Washington
Boston	Billerica, Maynard
Breisach	Freiburg/Breisach
Bukhta Tikhaya	Heiss Island
Bukhta Tiksy	Tixie Bay
Cachoeira Paulista	San Jose
Cambridge Tunnel	Hobart
Cape Canaveral	Cape Kennedy
Centro Geofisico	Cuba
Chung-Li	Taipei
Cyprus	Cape Zevgari
Dapango	Togo
Dikson	Dixon
Dixson Island	Dixon
Djibouti (Arta)	Djibouti
Dumont D' Urville	Terre Adelie
Durbanville	Capetown
Ebro	Tortosa
El Cerillo	Mexico City
ESSA Boulder	Boulder
Fairbanks	College
Falkland Island	Port Stanley
Formosa	Taipei
Fort Belvoir	Washington
Godley Head	Christchurch
Great Baddow	Baddow
Haringhata	Calcutta
Harvard Univ.	Boston
Ice Island B	Fletchers Ice Island
Ivato	Tananarive
Jakutsk	Yakutsk
Karavia	Elizabethville
Kenora	Winnipeg
Kihei Maui	Maui
Kokubunji	Tokyo
Krasnaya Pakhra	Moscow
Leopoldville	Kinshasa-Binza
Lexington	Boston
Louisiana State Univ.	Baton Rouge
Macao	Macau
Meadows	Washington
Mobile Station	Batavia
Monte Capellino	Genova
Mount Stromlo	Canberra
N.A.I.C.	Arecibo
Narssarssuak	Narssarssuaq
NBS Boulder	Boulder
New Delhi	Delhi
Nichols Field	Manila
Oslo	Kjeller
Paris	Bagneux
Paris-Domont	Domont
Platteville	Erie
Point Barrow	Barrow
Pole Station	South Pole
Port Lockroy	Argentine Island
Prague	Pruhonice
Pretoria	Johannesburg
Providenie Bay	Providenya
Quebec	Baie St. Paul
Quezon City	Manila
Ramey AFB	Puerto Rico
Raoul Island	Kermadec
Roma	Rome
Rostov-on-Don	Rostov
Sanae Station	Sanae
San Alessio	Rome
San Francisco	Stanford
San Juan	Puerto Rico
Scaramanga Station	Athens
Showa	Syowa Base
Sky-Hi	Eights
Sottens	Schwarzenburg
Syowa Bay	Syowa Base
Stanley	Port Stanley
Sterling	Washington
Svalbard	Longyearbyen
Taiwan	Taipei
Taravaro	Tahiti
Tiksy Bay (Tiksi)	Tixie Bay
Tolasa	Leyte
Trichy	Tiruchirapalli
Trivandrum	Thumba
Waller Field	Trinidad
Warsaw	Miedzeszyn
Weddell Sea	Ellsworth
Wilkes	Casey
Yuzhno Sakhalinsk	Yuzhno Sakhali

2. Alphabetical Listing

STATION	LAT.	EAST LONG.	CODE	OPEN - CLOSE
Aberystwyth	52.43	355.93	AB	12/61 - 12/61
Accra	5.63	359.83	AG	8/61 - 7/63
Adak	51.90	183.40	AD 651	10/45 - 12/65
Ahmedabad	23.02	72.60	AH 223	2/53 -
Akita	39.70	140.10	AK 539	12/49 -
Alert	82.60	297.40	AL J82	8/57 - 12/58
Alma Ada	43.25	76.92	AA 343	1/43 -
Anchorage	61.20	210.10	AN 761	4/49 - 12/65
Arctica (NP-6)	82.40	9.50	XG	7/57 - 9/59
Arctica (NP-7)	86.40	296.60	XH	7/57 - 3/59
Arctica (NP-8)	80.00	165.00	XI	6/60 - 11/61
Arctica (NP-10)	78.00	165.00	XJ	12/62 - 4/64
Arctica (NP-11)	79.00	165.00	XK	7/62 - 10/62
Arctica (NP-12)	79.00	187.00		5/63 - 4/64
Arctica (NP-13)	81.00	165.00	XL	7/64 - 9/66
Arctica (NP-16)	78.08	176.48	XM 676	6/68 - 3/70
Aractica(NP-19)	78.00	150.0	XP	7/70 - 10/72
Arecibo	18.50	293.17	AR J19	6/63 -
Argentine Is.	-65.20	295.70	AI J6M	5/48 -
Arkhangelsk	64.60	40.50	AZ 163	NK
Ashkhabad	37.90	58.30	AS 237	?/56 -
Athens	38.0	23.60	AT 138	12/43 -
Auckland	-37.00	175.00	AU 63P	1/67 -
Baddow	51.70	.50	01 061	11/40 - 4/46
Bagneux	48.80	02.3	55 039	3/47 - 12/49
Baguio	16.40	120.60	BF 416	3/52 - 1/64
Baie St Paul	47.38	289.45	PL J48	11/61 - 2/62
Baker Lake	64.30	264.00	BL 964	2/49 - 2/59
Bandoeng	-6.90	107.60	02 40Q	5/43 - 9/45
Bangkok	13.70	100.60	BK 314	8/63 -
Bangui	4.60	18.60	BI 104	2/58 - 9/66
Barbados	13.12	300.40	BS J13	1/57 - 6/67
Barrow	71.30	203.20	BW 771	12/49 - 11/65
Batavia	39.40	275.90	03 939	9/51 - 10/52
Baton Rouge	30.50	268.8	04 930	7/43 - 9/53
Baudouin	-70.40	23.30	BB 17!	4/58 - 2/67
Beijing	40.00	116.30		2/53
Belgrano	-77.90	321.40	GE A7Q	7/58
Beograd	44.80	20.50	BE 145	3/58
Beveridge	-37.29	144.59		
Billerica	42.60	288.70	BO J43	11/65 - 9/70
Bogota	04.50	285.80	BG J05	8/45 - 6/67
Bombay	19.00	72.80	BM 219	8/45 -
Boston	42.40	288.70	56 J43	3/45 - 7/51
Boulder	40.00	254.70	BC 840	7/58 -
Bribie Is.	-27.30	153.00		
Brisbane	-27.50	152.90	BR 52P	6/43 -
Budapest	46.77	21.10	BU 147	1/56 -
Buenos Aires	-34.50	301.50	BA J3M	2/50 -
Bunia	01.50	30.20	BN 102	10/57 - 11/60
Burghead	57.7	356.30	06 063	1/41 - 1/47
Byrd Station	-80.0	240.0	BD 88!	7/57 - 12/70
Cairo	30.0	31.19	05 130	11/45 - 9/46
Calcutta	23.0	88.6	CU 322	7/44 - NK
Camden	-34.00	150.67	CD	
Campbell Is.	-52.50	169.20	CI 65K	4/44 -
Canberra	-35.30	149.00	CB 53N	3/37 -
Cape Hallett	-72.30	170.20	HT 67K	1/57 - 2/64
Cape Kennedy	28.40	279.40	CC 929	3/58 - 6/66
Cape Parry	70.17	179.50	CE 870	NK
Cape Schmidt	68.90	179.50	CE 669	1/60 -
Capetown	-34.10	18.30	CT 13M	9/44 - 5/71
Cape York	-11.0	142.40	07 51J	12/44 - 5/46
Cape Zevgari	34.60	32.90	CV 135	1/64 -
Casablanca	33.60	352.40	CA 033	10/51 - 2/58
Casey	-66.28	110.53	CW 460	2/69 - 12/75
Changchun	43.83	125.27		6/56
Chiclayo	-06.80	280.20	CY 90P	7/57 - 5/59
Chimbote	-09.10	281.40	CM 90R	7/57 - 5/59
Chita	52.0	113.5	CX 452	1/46 - 5/63

2. Alphabetical Listing (Continued)

STATION	LAT.	EAST LONG.	CODE		OPEN - CLOSE
Chongqing	29.50	106.42			5/53
Christchurch	-43.60	172.80	GH	64L	9/42 -
Christmas Is.	1.90	202.70	08	701	12/44 - 7/46
Chungking	29.40	106.30	09	429	8/45 - 10/49
Churchill	58.80	265.80	CH	958	7/43 -
Clyde River	70.50	291.40	CR	J70	10/43 - 10/58
Cocoa	28.20	279.40	10	928	1/52 - 6/52
Cocos Is.	-12.20	96.80	CS	31K	11/61 - 10/74
College	64.90	212.20	CO	764	7/41 -
Colombo	6.90	79.87	11	306	4/45 - 7/46
Concepcion	-36.60	287.00	CP	J30	10/57 -
Cuba	23.00	278.00	CD	923	8/64 -
Dairen	39.0	121.60	12	439	12/44 - 2/45
Dakar	14.70	342.58	DK	A14	5/49 -
Decepcion	-63.0	299.30	DE	J6L	1/51 - 11/67
Delhi	28.60	77.16	DH	328	1/42 -
De Bilt	52.10	5.20	DT	053	11/49 -
Dixon	73.50	80.40	DI	373	7/57 -
Djibouti	11.50	42.80	DJ	111	10/51 - 7/81
Domont	49.00	2.30	13	062	3/50 - 4/52
Dourbes	50.10	4.60	DB	049	6/57 -
Dushanbe	38.57	68.78	DS	238	7/57 -
Eglin AFB	30.38	273.30	EG	930	3/64 - 1/69
Eights	-75.23	282.84	EI	97N	12/61 - 9/65
Elizabethville	-11.60	27.50	EZ	11J	4/52 - 6/60
Ellsworth	-77.72	318.90	EL	A7P	7/57 - 11/62
El Arenosillo	37.10	353.27			12/69 -
Erie	40.01	254.70	ER	842	6/69 -
Errol	44.79	288.87			11/68 - 4/74
Eureka	80.0	274.10	EU	980	7/57 - 1/59
Fiji	-18.00	178.20	14	61Q	4/46 - 4/48
Fletchers Ice	75.90	235.70	XC	982	6/57 - 1/59
Fortaleza	-3.70	321.20	FZ	AOM	?/74 -
Fort Archambault	09.20	18.35	FA	109	1/69 - 2/74
Fort Chimo	58.10	291.60	FC	J58	4/49 - 12/58
Fort Monmouth	40.40	285.90	FM	J40	3/55 - 12/65
Fort Norman	64.90	234.50	FN	864	7/57 - 10/58
Fraserburgh	57.60	357.90	15	065	3/48 - 9/51
Freiburg	48.10	07.60	FR	048	7/46 - 12/76
Frobisher Bay	63.80	291.40	FB	J63	9/57 - 1/59
Fuji Ship	0.00	0.00			11/65 - 4/67
Fukaura	40.60	139.90	16	541	3/47 - 12/49
Garchy	47.30	03.10	GY	042	10/59 -
Genova	44.60	09.00	GV	044	5/56 - 12/73
Gibilmanna	37.59	14.01	GM	037	4/76 -
Godhavn	69.30	306.50	GO	J69	11/51 -
Goose Bay	54.30	299.67	GS	J53	2/72 -
Gorky	56.15	44.28	GK	156	3/58 -
Grahamstown	-33.30	26.50	GR	13L	3/58
Grand Bahama	26.60	281.80	GB	926	6/57 - 6/71
Graz	47.10	15.50	GZ	146	8/47 -
Guam	13.50	144.87	17	513	12/44 - 5/56
Guangzhou	23.13	113.35			3/55
Haifa	32.82	34.98	HA	132	1/60 -
Hainan	20.00	110.03			9/56
Hainan Is.	18.30	109.30	18	419	6/42 - 7/43
Halley Bay	-75.50	333.40	HB	A7N	6/57 -
Hankow	30.70	114.30	19	432	9/41 - 1/45
Hanover	43.70	287.80	HN	J44	11/68 - 4/74
Heiss Is.	80.60	58.00	BT	280	1/38 -
Hermanus	-34.42	19.23	HE	13N	5/71 -
Highgate Spgs.	45.01	286.91			
Hiraiso	36.40	140.6	20	536	7/36 - 8/45
Hiratsuka	35.3	139.3	21	533	12/40 - 5/45
Hobart	-42.90	147.30	HO	54K	12/45 -
Hollandia	-2.50	140.80	HL	50K	12/57 - 2/59
Hong Kong	22.33	114.20	HK	423	1/69 -
Huancayo	-12.0	284.70	HU	91K	11/37 -
Huntsville	34.44	273.65	HV	934	
Hyderabad	17.35	78.47	HY	317	5/63 - NK

2. Alphabetical Listing (Continued)

STATION	LAT.	EAST LONG.	CODE	OPEN - CLOSE
Ibadan	07.4	03.90	IB 007	12/51 -
Ilo	-17.40	288.80	IL J1P	2/59 - 5/59
Inverness	57.40	355.80	IN 056	10/51 - 6/63
Irkutsk	52.5	104.0	IR 352	?/56 -
Jamaica	18.00	283.20	JA 918	4/62 - ?/74
Jicamarca	-11.95	283.14	JI 91J	4/62 -
Johannesburg	-26.10	28.10	JO 120	5/46 -
Juliaca	-15.50	289.80	JU J1N	3/59 - 5/59
Juliusruh/Rugen	54.60	13.40	JR 055	4/57 -
Kaliningrad	54.70	20.62	KL 154	2/64 -
Kaminoge	35.6	139.6	22 532	1/45 - 8/45
Karaganda	49.82	73.08	KR 250	8/64 -
Kerguelen	-49.35	70.24	KG 24R	2/53 -
Kermadec	-29.20	182.10	KC 62R	6/43 - 9/72
Khabarovsk	48.50	135.10	KB 548	9/59 -
Khartoum	15.55	32.58	23 115	3/52 - 3/54
Kiev	50.72	30.30	KV 151	1/64 -
Kinshasa Binza	- 4.50	15.20	LB 10M	2/52 -
Kiruna	67.84	20.42	KI 167	3/49 -
Kjeller	60.0	11.10	OS 059	4/42 - 1/59
Kochel	47.7	11.4	24 064	1/41 - ?/46
Kodaikanal	10.20	77.50	KO 310	7/52 -
Kodiak	57.78	207.60	KD 758	1/79 -
Kokubunji	35.70	139.50	25 535	8/43 - 12/44
Kwajalein	09.05	167.20	26 609	1/45 - 2/45
Lanchester	53.00	358.00		NK
Lanchow	36.1	103.8	27 336	12/46 - 7/49
Lannion	48.45	356.73	LN 047	1/71 -
Lanzhou	36.02	103.92		11/56
La Paz	-16.50	291.90	LP J10	10/57 - NK
La Quiaca	-22.10	294.40	LQ J2K	6/58 - 1/59
La Reunion	-21.10	55.90	LR 22J	10/81 -
Leicester	52.00	359.00		
Leningrad	59.95	30.70	LD 160	1/39 -
Leyte	11.00	125.00	28 411	6/45 - 9/48
Lindau	51.65	10.10	LI 050	11/47 - 7/79
Little America	-78.20	197.80	LA 77Q	7/57 - 12/58
Longyearbyen	78.20	15.70	LG 178	6/56 - 8/59
Loshan	29.50	103.70	29 329	1/46 - 5/46
Lulea	65.60	22.10	LU 165	9/47 - ?/69
Lwiro	-02.30	28.80	LW 10K	2/52 - 8/67
Lycksele	64.62	18.76	LY 164	1/57 -
Macau	22.20	113.60	MC 422	5/58 -
Macquarie Is.	-54.50	159.00	MQ 55M	6/50 - 11/58
Madras	13.10	80.30	MD 313	7/44 - ?/70
Magadan	60.00	151.00		
Makassar	- 5.20	119.5	30 40N	1/44 - 11/44
Manila	14.60	121.0	MN 414	3/44 -
Manzhouli	49.58	117.45		11/54
Marion Is.	-46.87	37.85	MR 140	7/57 - 5/80
Maui	20.80	203.50	MA 720	3/44 -
Mawson	-67.60	62.90	MW 26P	2/58 -
Maynard	42.43	288.55	MY J43	10/70 - 6/75
Meanook	54.60	246.70	ME 855	7/57 - 1/59
Meguro	35.6	139.7	31 534	6/34 - 12/40
Mexico City	19.4	260.3	MX 919	4/58 -
Miedzeszyn	52.20	21.20	MZ 152	7/58 -
Millstone Hill	42.60	288.50	MH J45	4/63 -
Mirny	-66.50	93.00	MI 360	4/56 - 1/73
Moscow	55.50	37.30	MO 155	3/44 -
Mundaring	-31.99	116.31	MU 43K	4/59 -
Murmansk	69.0	33.0	MM 168	3/56 -
Nairobi	-01.28	36.83	NR 10J	3/52
Nanking	32.1	119.0	32 432	9/47 - 1/49
Narssarssuaq	61.20	314.55	NQ J61	9/50 -
Natal	-05.70	324.80	NL AON	8/57 -
Nha Trang	12.25	109.2	33 412	7/51 - 4/56
Norfolk Is.	-29.00	168.0	NI 63!	2/64 -
Norilsk	69.4	88.1	NO 369	1/68 -
Novokazalinsk	45.77	62.12	NK 246	3/64 -

2. Alphabetical Listing (Continued)

STATION	LAT.	EAST LONG.	CODE		OPEN - CLOSE
Novosibirsk	54.6	83.2	NS	355	1/69 -
Nurmijarvi	60.50	24.60	NU	159	1/57 -
Okinawa	26.30	127.80	OK	426	4/46 -
Ottawa	45.4	284.10	OT	945	1/42 -
Ouagadougou	12.37	358.47	OU	012	5/66 -
Palau Is.	7.30	134.50	34	407	7/39 - 6/44
Palmyra	05.38	197.82	35	705	11/46 - 11/49
Panama	9.40	280.10	PN	909	6/51 - 12/58
Paramaribo	5.80	304.80	PM	J06	7/57 -
Paramushiro	50.10	155.30	36	550	11/43 - 10/44
Paris Saclay	48.10	02.30	SC	047	6/60 - 12/70
Patrick AFB	28.20	279.40			NK
Peiping	39.90	116.40	37	440	4/46 - 12/48
Penang	5.50	100.40	38	305	3/44 - 8/45
Peshawar	34.00	71.50	39	234	8/45 - 5/47
Petropavlovsk	53.02	158.65			
Pitcairn Is.	-25.00	230.00	40	82N	10/44 - 12/45
Platteville	40.01	254.70	PV	842	10/70 - 8/71
Point Arguello	35.60	239.40	PA	836	7/63 -
Poitiers	46.57	.35	PT	046	7/48 -
Popayan	2.45	283.38	PP	902	5/70 - NK
Portage La Prairie	49.90	261.70	41	950	9/46 - 4/51
Port Lockroy	-64.80	296.50		J6M	5/48 - 12/61
Port Moresby	-09.40	147.10	PY	50R	5/61 - 10/72
Port Stanley	-51.70	302.20	PS	J5J	12/45 -
Prince Rupert	54.30	229.70	42	854	6/45 - 6/54
Providenya	64.40	186.60	PD	664	3/57 -
Pruhonice	50.00	14.56	PQ	052	4/58 -
Puerto Rico	18.50	292.80	PR	J18	2/41 - 6/63
Quetta	30.20	67.00	QT	230	10/57 - 12/64
Rabat	33.90	353.90	RT	034	2/58 - NK
Rangoon	16.8	96.5	43	316	6/43 - 2/45
Rarotonga	-21.20	200.20	RA	72J	1/45 - 3/80
Resolute Bay	74.70	265.10	RB	974	2/49 -
Reykjavik	64.10	338.20	RK	A64	4/44 - 12/64
Rome	41.90	12.52	RO	041	1/51 -
Rostov	47.20	39.68	RV	149	1/57 -
Sachs Harbor	72.00	234.85	SH	872	NK
Salekhard	66.50	66.70	SD	266	7/57 -
Salisbury/Rhode	-17.80	31.00	SY	11P	1/58 - 12/58
Salisbury	-34.70	138.60	SR	53M	10/62 - 10/73
Sanae	-70.30	357.60	QM	07!	6/62 -
San Jose	-22.70	324.80	BZ	J2L	
San Juan (Arg.)	-31.55	291.50	SN	J3J	6/80 -
San Salvador	24.10	285.50	SS	J24	11/58 - 2/65
Sao Paulo	-23.50	313.50	SP	J2L	8/53 - 5/65
Saskatoon	52.10	253.40			
Schwarzenburg	46.60	6.70	SZ	045	12/50 - 11/72
Scott Base	-77.90	166.80	SB	67Q	3/57 -
Seattle	47.75	237.58	SE	847	1/58 - 10/60
Seoul	37.23	126.57	SU	437	10/67 -
Shibata	37.9	139.3	44	537	11/46 - 10/49
Shikuka	49.3	143.0	45	549	10/40 - 12/41
Simferopol	44.80	34.10	SF	144	1/57 - 12/59
Singapore	1.4	103.7	SI	301	2/43 - 7/71
Slough	51.50	359.43	SL	051	1/30 -
Slutsk	59.70	30.5	46	15I	NK
Snainton	54.2	00.00	47	050	8/44 - 9/44
Sodankyla	67.40	26.60	SO	166	8/57 -
Sofia	42.70	23.40	SQ	143	?/60 -
South Georgia	-54.27	323.50	SG	A5M	7/70 -
South Pole	-90.00	00.00	PO	09!	7/57 - 3/68
South Uist	57.20	352.86			NK
Soya Ship	-60.00	00.00	XD		1/56 - 5/62
Stanford	37.40	237.80	ST	837	2/42 - 3/75
St. Johns	47.60	307.30	SJ	J47	5/44 - 9/81
Sverdlovsk	56.70	61.10	SV	256	5/44 -
Swan River	52.10	258.80	48	952	4/46 - 8/46
Syowa Base	-69.00	39.60	SW	16R	2/59 -
Tahiti	-17.70	210.70	TT	71P	12/57 -

2. Alphabetical Listing (Continued)

STATION	LAT.	EAST LONG.	CODE	OPEN - CLOSE
Taipei	25.0	121.20	TP 424	3/50 -
Talara	-04.60	278.70	TA 90M	10/54 - 12/65
Tamanrasset	22.80	5.53	TN 022	2/56 - ?/70
Tananarive	-18.80	47.50	IV 21Q	11/51 - 5/72
Tangerang	-6.17	106.63		
Tashkent	41.33	69.62	TQ 241	9/61 -
Tbilisi	41.70	44.80	TB 142	6/63 -
Tehran	35.70	51.40	TE 236	4/63 -
Terre Adelie	-66.66	140.02	DU 560	12/49 -
The Pas	54.0	259.0	49 954	5/46 - 12/53
Thule (Tuto)	76.40	291.30	TH J76	7/55 - 6/66
Thule (Qanaq)	77.50	290.80	TH J77	9/68 -
Thumba	8.60	76.90	TC 309	10/64 -
Tiruchirapalli	10.80	78.70	TI 311	2/49 -
Tixie Bay	71.6	129.8	TX 471	7/57
Togo	10.80	0.40	TG 011	7/65 - 2/67
Tokyo	35.70	139.50	TO 535	6/34 -
Tomsk	56.50	84.90	TK 356	3/37 -
Tortosa	40.80	0.3	EB 040	5/57 -
Townsville	-19.63	146.85	TV 51R	6/46 -
Toyohara	46.9	142.80	50 546	9/42 - 8/44
Trelew	-43.20	294.70	TW J4L	4/58 - ?/79
Trinidad	10.75	298.43	51 J10	2/44 - 6/51
Trivandrum	8.50	77.00	TM 308	1/57 - 10/64
Tromso	69.70	19.00	TR 169	8/32 -
Tsitsihar	47.3	123.9	52 447	4/40 - 8/45
Tsumeb	-19.20	17.70	TS 11R	7/57 -
Tucuman	-26.90	294.60	TU J20	7/57 -
Tunguska	61.6	90.0	TZ 362	1/68 -
Uppsala	59.80	17.60	UP 158	11/51 -
Ushuaia	-54.80	291.70	UA J5M	11/57 -
Vanimo	- 2.70	141.30	VA 50L	7/64 -
Victoria Beach	50.80	263.92	53 951	7/45 - 9/45
Victoria	48.40	236.60	VI 848	7/57 - 1/59
Vostok	-78.4	106.9	VO 47P	3/58 -
Wakkanai	45.40	141.70	WK 545	3/47 -
Wallops Is.	37.9	284.5	WP 937	7/63 -
Washington	38.70	282.90	WA 938	12/29 - 9/68
Watheroo	-30.30	115.90	WT 43!	4/35 - 3/59
White Sands	32.30	253.50	WS 832	6/46 - 3/82
Wilkes	-66.90	110.50	WL 460	7/57 - 1/69
Winnipeg	49.80	265.60	WI 949	4/51 - 12/76
Woomera	-31.00	138.6	WO 53J	5/61 - 12/69
Wuchang	30.60	114.40	54 430	8/46 - 5/49
Wuhan	30.60	114.33	WU 430	?/37
Yakutsk	62.0	129.60	YA 462	2/57
Yamagawa	31.20	130.60	YG 431	12/46 -
Yellow Knife	62.40	245.60	YE 862	11/57 - 1/59
Yuzhno Sakhali	47.0	143.0	SA 547	?/56 - 8/70
Zarya Ship			XF	8/59 - 11/66

3. Paired or Grouped Stations

STATION	LAT.	EAST LONG.	OPENING DATE	CLOSING DATE
Bekescaba	46.7	21.2	1/1964	
Budapest	47.4	19.2	1/1956	12/1959
Casey	-66.3	110.5	2/1969	12/1975
Wilkes	-66.9	110.5	7/1957	1/1969
Argentine Is.	-65.2	295.7	2/1962	
Port Lockroy	-64.8	296.9	5/1948	12/1961
Cape Kennedy	28.4	279.4	3/1964	10/1966
Cape Canaveral	28.4	279.4	3/1958	2/1964
Cocoa	28.2	279.4	1/1952	6/1952
Ft. Monmouth	40.4	285.9	8/1953	12/1965
Belmar	40.2	296.0	7/1950	8/1953
Hermanus	-34.4	19.2	6/1971	
Capetown	-34.1	18.3	9/1944	5/1971
La Paz	-16.5	291.9	12/1959	?/1969
Juliaca	-15.5	289.8	3/1959	5/1959
La Paz	-16.5	291.9	10/1957	12/1958
Inverness	57.4	355.8	10/1951	6/1963
Fraserburg	57.6	357.9	3/1948	9/1951
Manila	14.7	121.1	1/1964	
Baguio	16.4	120.6	3/1952	12/1963
Manila (Nichols Field)	14.5	120.0	3/1944	5/1947
Maynard	42.4	288.5	10/1970	6/1975
Billerica	42.6	288.7	11/1965	9/1970
Boston	42.6	288.7	3/1945	7/1951
Mundaring	-32.0	116.2	4/1959	
Watheroo	-30.3	115.9	1935	3/1959
Popayan	2.4	283.3	5/1970	
Bogota	4.5	285.8	8/1945	6/1967
Thumba	8.6	76.9	11/1964	
Trivandrum	8.5	77.0	1/1957	10/1964
Kenora	49.8	265.6	10/1963	12/1976
Winnipeg	49.9	262.9	4/1951	9/1963
Thule/Qanaq	77.5	290.8	10/1968	
Thule/Tuto	76.4	291.3	8/1960	7/1966
Thule/AFB	76.6	291.7	2/1956	7/1960
Wallops Is.	37.9	284.5	7/1963	
Ft. Belvoir	38.7	282.9	1949	9/1968
Sterling	39.0	282.5	8/1943	1949
Beltsville	39.1	283.9	3/1933	9/1943
Meadows	39.0	283.0	3/1933	2/1943
Kensington	39.1	282.8	12/1929	3/1933

IV. DATA TYPES AND KEY TO SYMBOLS

The column headings in Section V are:

IONOGRAMS (generally on 35mm film)
F-PLOTS (on paper)
M (f-plots on microform)
WORKSHEETS (one-sheet-per-day of all hourly characteristics)
TABULATIONS (table of daily/hourly values and medians by characteristic)
CH (number of characteristics scaled)
DIGITAL (scaled characteristics - digitized and archived in digital format)

Key to symbols used in Ionosphere Vertical Soundings:

A = Complete month of data held (final archive format for hourly digital data).
B = Partial month of data held.
C = Temporary format for hourly digital data held on cards.
M = Only monthly medians held.
N = Not available at Data Center and/or no observations made.
Q = Not held at our Data Center, but known to exist - WDC-A will attempt to obtain these data upon request.
P = Ionograms for Priority Regular World Day only.
S = Station closed.
T = Temporary format for hourly digital data held on tape.
U = Data known to be unreliable.
W = Data archived only for Regular World Days and/or Special World Intervals.

V. ALPHABETICAL LISTING OF DATA HOLDINGS

ACCRA 5.63 359.83 AG

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1961	B		BBA	AB																		
1962	B		B	A																		
1963	B		B	BS																		

ADAK 51.90 183.40 AD 651

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1945																	AAA	8				
1946			AAA	AAA																		
1947	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1948	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1949	ANN	NAA	AAA	AAA										ANN	NAA	NNN	AAA	12				
1950	AAA	AAA	AAA	BBB										AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA									
1957	AAA	AAA	AAA	AAA			BAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	T T	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	AUU	UAA	AAA	AAA	AUU	UAA	X	AAA	AAA	AUU	UAA	AAA	AAA	AUU	UAA	13	TTT	TTT	TT	TT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TT	TTT	TTT	TTT
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	AAA	AAB	AAA	AAA	X	AAA	AAB	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966	S				S					S				S					S			

AHMEDABAD 23.02 72.60 AH 223

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1955														AAA	AAA	AAA	AAA	9				
1956														AAA	AAA	AAA	AAA	9				
1957							WWW	WWW	X					AAA	AA	AAA	AAA	9				
1958					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	NAA	8				
1959					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	10				
1960														AAA	AAA	AAA	AAA	10				
1961					WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	10				
1962					WW				X					AAA	AAA	AAA	AAA	9				
1963														AAA	AAA	AAA	AAA	9				
1964														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1965														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1966														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1967														AAA	AAA	AAA	AAA	9	MM		MM	
1968														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	M
1969														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1970														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1971														AAA	BAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1973														AAA	NAA	AAA	AAA	9	MMM	MM	MMM	MMM
1974														AAA	AAA	AAA	AAA	8	MMM	MMM	MMM	MMM
1975														BAA	AAA	AAA	ANA	8	M M	MMM	MM	M M
1976														AAA	AAA	AAA	AAA	8				
1977														AAA	AAA	AAA	AAA	8				
1978														BAN	AAA	AAA	AAA	8				
1979														NNN	NNN	NNN	NAA	8				
1980														BBA	BBB	BAB	BAA	8				
1981														ABA	AAA			8				

AKITA 39.70 140.10 AK 539

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1949																	A	11				
1950														AAA	AAA	AAA	AAA	11				
1951														AAA	AAA	AAA	AAA	11				
1952														AAA	AAA	AAA	AAA	11				
1953														AAA	AAA	AAA	AAA	11				
1954														AAA	AAA	AAA	AAA	11				
1955														AAA	AA	A	AAA	4				
1956														AAA	AAA	AAA	AAA	3				
1957			WWW	WWW			AAA	AAA						AAA	AAA	AAA	AAA	12				
1958	WWW	PWW	WPP	WWP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1960	WPP	WWW	WWW	WWW	ANN	NNA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1961	WWW	WWW	WWW	WWP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1962	WWW	WWW	WWW	WWB	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1967	PPP	PP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MM	MM		
1968	P				AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMA	AAA	AAA
1969	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1970	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1972	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1973	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1974	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1976	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1977	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1979	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1980	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1981					AAA	AAA								AAA	AAA	AAA		14				

ALERT 82.6 297.4 AL J82

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957			WW	WWW			AA	AAA	X							AA	AAA	8				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	8				
1959	S				S									S								

ALMA ATA 43.25 76.92 AA 343

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1945														M	MMM	MM	MM	6				
1946														MMM	MMM	MMM	M	7				
1947														M				6				
1956															M	M		8				
1957			WWW	WWW										M	M	MMM	AAA	AAA	12			
1958	WWW	WWW	MWW	WWW	AAA	AAA	AAW	WW						AAA	AAA	AAA	AA	14				
1959	WWW	WWW	MWM	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	ANN	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM

ALMA ATA (CONTINUED) 43.25 76.9 AA 343

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1972	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWW	WW		WW	AAA	AAA	AAA	MAA	X					AAA	AAA	AAA	MAA	14	MMM	MMM	MMM	MMM
1974	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MM			
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	A	AAA	14				
1977	WWW	WWW	WWW	WWW			A	A	AA	X				AA	AA	AAA	AAA	14				
1978	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1979	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1980	WWW	WWW	WWW	WWW	AAA	AAA	AAA		X					AAA	AAA	AAA	AAA	13				
1981	WWW	W												AAA	A			13				

ANCHORAGE 61.20 210.10 AN 761

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1949		AAA	AAA	AAA											AAA	AAA	AAA	12				
1950	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1956	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA					8				
1957	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1961	AAA	AAA	ABA	AAA	AAA	AAA	ABA	AAA		AAA	AAA	ABA	AAA	AAA	AAA	ABA	AAA	11	TTT	TTT	TTT	TTT
1962	AAA	AUU	UAA	AAA	AAA	AUU	UAA	AAA		AAA	AUU	UAA	AAA	AAA	AUU	UAA	AAA	11	TTT	TTT	TTT	TTT
1963	AAA	AAA	AAA	AA	AAA	AAA	AAA	BAA		AAA	AAA	AAA	BAA	AAA	AAA	AAA	AA	11				
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAB	AAA	AAA	AAA	AAB		AAA	AAA	AAA	AAN	AAA	AAA	AAA	AAB	11	TTT	TTT	TTT	TTT
1966	S				S					S				S					S			

ARCTICA (NP-6) 82.40 9.50 XG

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957			WWW	WWW			WAA	AAA	X							BAA	AAA	12				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	W	S	AAA	AAA	AA	S	X					AAA	AAA	AAB	S	12				

DRIFTING STATION

ARCTICA (NP-7) 86.40 296.60 XH

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957			WWW	WWW			AAA	AAB	X							AAA	AAB	12				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAB	X					AAA	AAA	AAA	AAB	12				
1959	WWW	S			AAA	S			X					AAA	S			12				

DRIFTING STATION

ARCTICA (NP-8) 80.00 165.00 XI

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1960	W WWW WWW	B AAA AAA	X		B AAA AAA	7	
1961	WWW WWW NWW WS	AAA ABA NAA AS	X		AAA ABA NAA AS	7	

DRIFTING STATION

ARCTICA (NP-10) 78.00 165.00 XJ

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962	W	A	X		A	12	
1963	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1964	WWW WS	AAA BS	X		AAA BS	12	

DRIFTING STATION

ARCTICA (NP-11) 79.00 165.00 XK

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962	WWW WS	AAA AS	X		AAA AS	12	

DRIFTING STATION

ARCTICA (NP-13) 81.00 165.00 XL

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964	WWW WWW	AAA AAA	X		AAA AAA	12	M M MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	M M MMM MMM MMM
1966	WNW WWW WWW S	BNA AAA AAB S	X		BNA AAA AAA S	12	M M MMM MMM S

DRIFTING STATION

ARCTICA (NP-16) 78.00 176.48 XM

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1968	W WWW WWW	B AAA AAA	X		A AAA AAA	13	
1969	WWW WWW WWW WWW	AAA ABA AAA ABB	X		AAA ABA AAA ABA	13	
1970	S	S			S		

DRIFTING STATION

ARCTICA (NP-19) 78.00 150.0 XP

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970	W WWW W	A AAA	X		A AAA	13	
1971	WWW WNW WWW W	AAA AAA AAA AA	X		AAA AAA AAA AA	13	
1972	S	A AAA AAA BS	X		A AA S	13	

DRIFTING STATION

ARECIBO 18.50 293.17 AR J19

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1964	BBB	BBB	BB																			
1966	BB	BBB	BBB	BBB																		
1967	BBB	BBB	BBB	BBB																		
1968	BBB	BBB	BBB	BBB																		
1969	BBB	BBB	BBB	BBB																		
1970	B	BB	BBB	BB																		
1971	BB	B	B	A																		
1972	BBA	BBA	AAB	AAA																		
1973	BBA	AAA	AAA	AAA	BAA	AAA	AAA	AAB						BAA	AAA	AAA	AAB	3				
1974	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	3				
1975	AAA	BAA																				
1976			B	BBB																		

ARGENTINE IS -65.20 295.70 AI J6M

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1948																						
1952														B	BBA	BNB	BBB	1				
1953														NNA	AAA	AAA	AAA	4				
1954														AAA	AAA	AAA	AAA	4				
1955														AAA	AAA	AAA	AAA	4				
1956														AAA	AAA	AAA	AAA	4				
1957		WWW	WWW			AAA	AAA		X					ANN	AAA	AAA	AAA	4				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAN	AAA	AAA	AAA	6				
1959	WW				A				X					AAA	AAA	AAA	AAA	6				
1960														AAA	AAA	AAA	AAA	6				
1961														AAA	BAA	AAA	AAA	6				
1962														AAA	AAA	AAA	AAA	6				
1963														NAA	AAA	AAA	AAA	6				
1964														AAA	AAA	AAA	AAA	6				
1965		A	A											AAA	AAB	AAA	AAA	6	MMM	MMM	MMM	MMM
1966				BB										AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967														AAA	AAA	AAA	AAA	13	MM	MMM	MMM	MMM
1968														AAA	BAA	AAA	AAA	13	M	MMM	MMM	MMM
1969														AAA	AAA	AAA	AAA	12	MM	MMM	MMM	MMM
1970														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971					AAA	AAA	AA							AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1972					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1973					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1974					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1975							AA	AAA	AAA					AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1976					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1977					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978														AAA	AAA	AAA	AAA	14				
														AAA	AAA	AAA	AAA	14				

ARKHANGELSK 64.6 40.5 AZ 163

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1969	QQQ	QQQ	QQQ	QQW	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1970	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1971	QQQ	QQQ	QQQ	QQW	QQQ	QQQ	QQQ	QQQ						QQQ	QQQ	QQQ	QQQ					
1972	WWQ	WQQ		QQ	QQQ	QQQ		QQ						QQQ	QQQ		QQ					
1973	QQQ	Q			QQQ	Q								QQQ	Q							
1974																						
1975																						
1976																						
1977																						
1978																						
1979														MMM	MMM		M	MM	8			
														MMM	MMM	M			8			

ASHKHABAD 37.90 58.30 AS 237

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1956														M	M			8				
1957			WWW	WWW			WWW	WWW	X					MMM	M	AAA	AAA	13				
1958	WWW	WWW	WWW	WWW	WWA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1959	W	W	W W	W	AAA	AAA		A	X					AAA	AAA		A	14				
1960	WWW	WWW	WWW	WWW	AAA	BAA	AAA	AAA	X					AAA	AAA	A	A A	14				
1961	WWW	WWW	WWW	WWW	AAA	AAA	BAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWW	ABA	AAA	AAA	ABA	X					ABA	AAA	AAA	AAA	14				
1963	WWW	WWW	NNN	WWW	AAA	AAA	NNN	AAA	X					AAA	AAA	NNN	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	ABA	BAA	AAA	X					AAA	ABA	BAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	MWW	WWW	WWW	WWW	BAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MM		MMM
1972	WWW	WWW	WWW	WWW		AAA	AAA	AAA	X					MM	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1975	W W	WWW	W		AA	A	AAA	AAA	X					A	A	AAA	AA	14				
1976					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1977					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1978					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1979					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1980					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1981														A								

ATHENS 38.0 23.60 AT 138

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1960																	AA	16				
1961														AAA	AAA	AAA	AAA	16				
1962														AAA	AAA	AAA	AAA	16				
1963														AA		AAA	AAA	16				
1964					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	16	MMM	MMM	MMM	MMM
1965						W								AAA	A			16	MMM	M		
1966														BA	AAA	BAA		4				
1967															AAA	BA	BB	3				
1968																AA		16			MM	
1969														AAA	AAB	BAA	BAA	16				
1970														AAA	AAA	AAA	AAA	16	MMM	MMM	MMM	MMM
1971																						
1972														AAA	AAA	ANA	AAA	16	MMM	MMM		
1973					WWW	WWW								AAA	AAA	AAA	AAA	16	MMM	MMM		
1974		B												AAA	AAA			16				
1975																						
1976																						
1977																						
1978																						
1979																						
1980																AAA	AAA	16				

AUCKLAND -37.00 175.00 AU 63P

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1967														AAA	AAA	AAA	AAA	14				
1968														AAA	AAA	AAB	AAA	3	MMM	MMM	MM	M
1969														AAA	AAA	AAA	BAA	3	MMM	MMM	MMM	MMM
1970														ABA	AAA	AAA	AAB	4	MMM	MMM	MMM	MMM
1971														BAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1973			B											BAA	AAA	AAA	AAA	4	MMM	MMM	MMM	MMM
1974														AAA	AAA	AAA	ABA	4	MMM	MMM	MMM	MMM

AUCKLAND (CONTINUED) -37.00 175.00 AU 63P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1975					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	4	
1977					AAA AAA AAA AAA	4	
1978					AAA AAA AAA AAA	11	
1979					S		S

BADDOW 51.70 .50 01 061

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1940					AA	1	
1941					AAA AAA AAA AAA	1	
1942					AAA AAA AAA AMA	2	
1943					AAA AAA AAA AAA	2	
1944					AAA AAA AAA AAA	2	
1945					AAA AAA AAA AAA	7	
1946					AAA AS	7	

CLOSED IN 1946

BAGNEUX 48.80 2.3 55 039

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1947					A AAN AAA AAA	10	
1948					AAA AAA ANA AAN	10	
1949					AA AAA AAN	10	
1950					S		

REPLACED BY DOMONT

BAGUIO 16.40 120.60 BF 416

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952				AA AAA AAA	AA AAA AAA	13	
1953				AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1954				AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1955	B			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	11	
1957	AAA AAA AAA AAA	A AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1960	AAA AAA AAA AAB	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1964	S	S		S	S		

REPLACED BY MANILA

BAIE ST PAUL 47.38 289.45 PL J48

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1961	BA						
1962	ABS						

BAKER LAKE 64.30 264.00 BL 964

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949	AA AAA AAA				AA AAA AAA AAA	12	
1950	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1952	A				AAA AAA AAA AAA	12	
1953	A				AAA AAA AAA AAA	10	
1954	A				AAA AAA AAA AAA	10	
1955					AAA AAA AAA AAA	10	
1956							
1957	AAA AAA	AAA AAA					
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1959	W S	AAS			AAS	10	

BANDOENG -6.9 107.6 02 40Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					BM MMM MMM	7	
1944					MMM BNM MMM MB	5	
1945					S		

BANGKOK 13.70 100.60 BK 314

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963	BA AAA	BA	X	BA ABA	A AAA	13	
1964	AAA AAA AAA AAA	BAA AAA BBB AAB	X	AAA AAB BAB BAB	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	ABB AAA AAA AAA		ABB AAB AAA ABA	AAB AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA BAA AAA	AAA AAA BBA A		AAA AAA BBA A	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	AAA AAA AAA AAA				AAA AAA AAA AAA	13	MM MM
1968	ABB AAA				ANB AAA AAA AAA	13	M M MMM MMM M
1969	ABB AAA AAA AAA				AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	AA AAA ABA AAA	AAA AAA AAA A	X	AAA AAA AAA	BAA AAA AAA AAA	13	MMM MMM MMM MMM
1971	AAA AAA AAA AAA			AAA AAA BAA AAA	A A AAA AAA AAA	13	MAM MMM MMM MMM
1972	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA MA	13	MMM MMM M
1973	AAA BAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1974	AAA AAA AAA AAA			AA AAA AAA AAA		13	
1975	AAA AAA AAA AAA			AAA AAA AAA AAA		16	
1976	AAA AAA AAA AAA			AAA AAA AAA AAA		16	AAA AAA AAA AAA
1977	AAA AAA AAA AAA			AAA AAA AAA AAA		16	
1978	AA A AA AAA			AAA AAA AAA AAA		16	A A
1979	AAA AAA AAA AAA			BBA A AA AAA	BA AAA A AAA	13	
1980				AAB AAA AAA AAA	AAB AAA AAA AAA	13	
1981				AAA ABB	AA A	13	

BANGUI 4.60 18.60 BI 104

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					AA AAA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAB BAB S	12	
1964					BBB BAA BNN AAB	12	MMM MMM M MMM
1965					BBB BBB BBB BBB	12	MMM MMM MMM MMM
1966	A				BBB NNN NNS	12	MMM S

BARBADOS 13.12 300.40 BS J13

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	B B						
1964	B						
1965	B B B						
1966	B						
1967	W S						

INTERMITTENT OPERATION

BARROW 71.30 203.20 BW 771

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949	A				A	12	
1950	AAA AAA AAA AAA			AA AAA AAA	AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA A A AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1957	AAA AAA BAB AAB	AAA AAA BAB AAB	X	AAA AAA BAB AAB	AAA AAA AAA AAA	11	TT TTT TTT TTT
1958	AAB AAA BBA AAA	AAB AAA BBA AAA	X	AAB AAA BBA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1959	AAA AAA AAB AAA	AAA AAA AAB AAA	X	AAA AAA AAB AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA ABA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	TTT T T TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT
1963	AAA AAA AAB NNA	AAA AAA AAA NN	X	AAA AAA AAA NN	AAA AAA AAA NN	7	
1964	AAA AAA AAA BAA	AAA AAA AAA BAA	X	AAA AAA AAA BAA	AAA AAA AAA AAA	11	AAA AAA AAA AAA
1965	AAA AAA AAA AAS	AAA AAA AAA AAS	X	AAA AAA AAA AAS	AAA AAA AAA AAS	11	TTT TTT TTT TTS

BATAVIA 39.40 275.90 03 939

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951	B B A BBA AAB			A AAA	A AAN	11	
1952	B A AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA S	11	

BATON ROUGE 30.50 268.8 04 930

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					BAA AAA	10	
1944					AAA AAA ABA AAA	11	
1945					AAA AAN AAA AAA	11	
1946							
1947					AAA AAA AAA AAA	11	
1948					AAA AAA AAA AAA	11	
1949					AAA AAA AAA AAA	10	
1950	AAA AAA AAA AAA				AAA AAA AAA AAA	10	
1951	AAA AAA AAA AAA			AAA AAA	AAA AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAS			AAA AAA AAS	AS	8	

BAUDOUIN -70.40 23.30 BB 17!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					BAA AAA AAA	15	
1959					A	15	

BAUDOUIN (CONTINUED) -70.40 23.30 BB 17!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					BAA AAA AAA	15	MMM MMM MMM
1965		WW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966		W			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967		S			S		S

BELGRANO -77.90 321.40 GE A7Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					MM	4	
1963		AAA			AAA	13	
1964	AAA AAA	AAA BAA			AAA AAA	13	MMM MMM
1965	AAA AAA AAA AAA	BAA AAA			AAA AAA	13	MMM MMM
1966	B AAA B A ABB						
1968	AB AAA						
1969	B						

BEOGRAD 44.80 20.50 BE 145

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962					A AA A	1	
1963					AAA AAA AAA AAA	1	
1964					AAA AAA AAA AAA	2	
1965					AAA AAA AAA AAA	2	
1966					NAA AAA AAA AAA	2	
1967					AAA AAA AAA AAA	2	
1968					AAA AAA AAA AAA	2	
1969					AAA AAA AAA AAA	2	
1970					AAA AAA AAA AAA	2	
1971					AAA ANA AAA AAA	2	
1972					AAA AAA AAA AAA	2	

BILLERICA 42.60 288.70 BO J43

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1965					AA	14	MM
1966					AAA AAA AAA ANN	14	MMM MMM MMM M
1967					NBA AAA AAA AAA	14	M MMM
1968					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970					AAA AAA AAA S	14	MMM MMM MMM S

REPLACED BOSTON, REPLACED BY MAYNARD

BOGOTA 4.50 285.80 BG J05

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	BAA BNN	BAA BNN	X	BAA BNN	AAA ANN	13	TTT T
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TT TTT
1959	AAA AAA AAA AAA	A A AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA BAA AAA AAA	B	X	B	B	13	T
1961	AAB AAN BAA NNN	N NNN		N NNN	N NNN		
1962	NBA AAA ABB AAA	N B AAA	X	N B AAA	N B AAA	13	T TTT
1963	AAA AAA AAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA AAA AAA	10	AAA AAA AAA AAA
1964	AAA AAA BAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AA AAA BAA AAA	10	AAA AAA AAA AAA
1965	AAA AAA BAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA BAA AAA	10	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	10	MMM MMM MMM MMM

BOGOTA (CONTINUED) 04.50 285.80 BG J05

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1967	AAA AAA S	AAA AAA S		AAA AAA S	AAA AAA S	10	CCC CCC S

REPLACED BY POPAYAN

BOMBAY 19.00 72.80 BM 219

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945					A AAA	2	
1946					AAA AAA AAA AAA	2	
1947					AAA AAA AAA AAA	3	
1948					AAA AAA AAA AAA	3	
1949					AAA AAA AAA AAA	3	
1950					AAA AAA AAA AAA	3	
1951					AAA AAA AAA AAA	3	
1952					AAA AAA AAB AAA	3	
1953					AAA AAA AAA AAA	3	
1954					AAA AAA AA AAA	3	
1955					AAA AAA AAA AAA	3	
1956					AAA AAA AAA AAA	3	
1957		W			AAA AA AAA ABB	3	
1958		WWW WWW WWW WWW			AAA AAA BAA AAA	4	
1959		WWW WWW WW WWW			AAA AAA BBA AAA	7	
1960					AAA ABB BBB BBB	7	
1961					BBB BBN AAB BBB	7	
1962					BBA AAA ABA BAA	7	
1963					AAA AAA AAA AAB	5	
1964					AAA AAA AAA AAB	5	MMM MMM MMM MMM
1965					AAB BBB BAA BBB	5	MMM MMM MMM MMM
1966					BAB BAB AAA BAB	5	MMM MMM MMM MMM
1967					BBB BBB BBN NNN	5	M MMM M
1968					NBA BAA AAB AAA	5	MM MMM MMM MMM
1969					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1972					BAA AAA AAA AAA	5	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1974					AAA AAA A A A	5	MMM MMM
1975					AAA AA A	5	
1976					AA AAA	5	
1977					A AAA	5	
1978					AAB BAB BAA BBB	5	
1979					AA AS	5	S

BOSTON 42.40 288.70 56 J43

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945	B				A AAA AAA AAA	10	
1946					A AAA	10	
1947					AAA AAA AAA AAA	10	
1948					AAA AAA AAA AAA	10	
1949	AA				AAA AAA AAA AAA	10	
1950	A				AAA AAA AAA AAA	10	
1951					AAA AAA S	10	

REPLACED BY BILLERICA IN 1965

BOULDER 40.00 254.70 BC 840

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1955		A	AA	A																		
1956				A A																		
1957	A	A	AA	BBB																		
1958	AAA	AAA	AAA	ABA			AA	B	X			BB	BA				AA	13				T
1959	AAA	AAA	AAB	AAA		A	A B	B B	X	AAA	AAB	BAB	AAB	AAA	AAA	AA	AAA	13	TTT	TTT	TT	TTT
1960	AAA	AAA	BAA	AAA	B	AA	AAB	A	X	BAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TAT	TTT	TTT
1961	AAA	AAA	AAA	BAA	AAA	AAB		B	X	AAA	AAB			AAA	AAA			7	TTT	TTT		
1962	AAA	AAA	AAB	AAB																		
1963	AAA	AAA	AAA	AAA		AA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1968	AAA	AAA	AAA	AAA	AAA	A		AA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA					AAA	AAA	BBB	BAA	AA				13	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	9	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1980	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1981	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA		A			17				

BRISBANE -27.50 152.90 BR 52P

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1943															A	AAA	AAA	11				
1944														AAA	AAA	AAA	AAA	15				
1945														AAA	AAA	AAA	AAA	18				
1946																						
1947														AAA	AAA	AAA	AAA	18				
1948														AAA	AAA	AAA	AAA	18				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	10				
1951														AAA	AAA	AAA	AAA	12				
1952														AAA	AAA	AAA	AAA	13				
1953														AAA	AAA	AAA	AAA	13				
1954														AAA	AAA	AAA	AAA	12		T		
1955														AAA	AAA	AAA	AAA	12				
1956														AAA	AAA	AAA	AAA	9				
1957							WWW	WWW						AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1958					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	WWW	WWW	WWW	WWW	WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1960	WWW	WWW	WWW	WWW										AAA	ABA	AAA	AAA	6	TTT	TTT	TTT	TTT
1961														AAB	AAA	AAA	AAA	3	TTT	TTT	TTT	TTT
1962				A										AAA	AAA	AAA	AAA	3	TTT	TTT	TTT	TTT
1963	B		A											AAA	AAA	AAA	AAA	3	TTT	TTT	TTT	TTT
1964														AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1965														AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1966				A										AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1967														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1968														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1972														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1973	B													AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1975														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	12				
1977														AAA	AAA	AAA	AAA	12				
1978														AAA	AAA	AAA	AAA	13				

BRISBANE (CONTINUED) -27.50 152.90 BR 52P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980					AAA AAA AAA AAA	13	
1981					BAA A	13	

BUDAPEST 46.77 21.10 BU 147

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956							
1957					AAA AAA AAA AAA	7	
1958					AAA AAA AAA AAB	10	
1959					BAA AAA BAA AAA	11	
1964		WWW WWW WNN WWW	X		AAA AAB ANN AAA	14	MMM MMM M MMM
1965		WWW WWW WWW WWW	X		ABB AAA AAA AAA	14	MMM MMM MMM MMM
1966		WWN NWW WWW BWW	X		AAB NAA AAA AAA	14	MMM MM MMM MMM
1967		WWW BWW WNB WWW	X		AAB BAA ANB AAA	14	M M M MMM
1968		WWW WBW WWW WWW	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969		WNN NNN NNN NNN	X		ABN NNN NNN NNN	14	MM
1971		NNN WBW WNN NNN			NNN AAA ANN NNN	14	MMM M
1972		BWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973		WNW WWW WWW WWW			ANA AAA AAA AAA	14	M M MMM MMM MMM
1974		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975		WWW WWW NNN WWW			AAB BAA BBA AAA	14	MMM MMM MMM MMM
1976		WWW NWN BWW NWW			AAA NAB AAA BAB	14	
1977		WW WWW NNW WW			AAA AAA NNA AA	14	
1978					AAA AAA AA	14	

BUENOS AIRES -34.50 301.50 BA J3M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1950					AA AAA AAA AAA	9	
1951							
1952					AAA BBB AAA AAA	8	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA AAA AAA	9	
1956							
1957		AA	X		AAA ANN NNN NAA	12	
1958	AA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1959	AAA AAA AAA AAA	ABB BBB BBB BBB	X		A A AAA AAA AAA	12	
1960	AAA AAA AAA AAA	AA AAA AAA	X		AAA AAA AAA AAA	12	
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1963	ABA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA BAA AAA	12	
1964	AAA AAA AAA AAA	AAA AAA AAA A	X		AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	BAA AAA AAA AAA	BAA BBA AAA AAA	X		BAA AAA AAA AAA	12	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA BAA BAA AAA			AAA BAA AAA AAA	12	MMM MMM MMM MMM
1967	AAA AAA AAA AAA				AAA AAA AAA AAA	13	MMM MMM MMM MMM
1968	AAA AAA AAA AAA				AAA AAA AAA AAA	13	MMM MMM MMM MMM
1969	AAA ABA AAA AAA				AAA AAA	13	MMM MMM
1970	AAA AAA AAA AAA						
1971	AAA AAA AAA AAA						
1972	AAA AAA AAA AAA				AAA AAA AAA AAA	13	
1973	AAA AAA AAA AAA				AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974	AAA AAA AAA AAA				AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	AAA AAA AAA AAA				AAA AAB BAA AAA	14	MMM MMM MMM MMM
1976	AAA AAA AAA AAA				AAA AAA AAA A A	14	
1977					AAA AAA AAA AAA	14	
1978					AA	14	

BUNIA 01.50 30.20 BN 102

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	BB				AAA	15	
1958					AAA AAA AAA AAA	20	
1959					AAA AAA BAA AAA	20	
1960					AAA ABB ABA BAS	20	

BURGHEAD 57.7 356.30 06 063

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1941					BAB BNB BNB BNA	6	
1942					AAA AAB AAA AAA	6	
1943					AAA AAA AAA AAA	6	
1944					AAA AAA AAA AAA	6	
1945					AAA AAA AAA AAA	6	
1946					AAA AAA AAA AAA	1	
1947					S		

BYRD STATION -80.0 240.0 BD 88!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AA AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAB	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1962	BNN AAA AAA AAA	BNN AAA AAA AAA	X	BNN AAA AAA AAA	BNN AAA AAA AAA	13	T TTT T T TTT
1963	BAA AAA AAA AAA	BAA AAA AAA AAB	X	BAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1964	AAA AAA AAA AAA	BBB BBA AAA BAB	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA AAA AAA AAB	AAA AAA AAA AAB	X	AAA AAA AAA AAB	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AA AAA AAA A		AAA AAA AAA AAA	AAA AAA AAA AAA	7	MMM MMM MMM MMM
1967	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA	7	CC
1968	AAA AAA AAA AAA	B		AAA A AAA		7	
1969	AAB ABA BBB BBB			BAB AA B		7	
1970	AAA AAA AAA ANA						
1971	S	S		S	S		S

CAIRO 30.0 31.19 05 130

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AA	4	
1946							

CALCUTTA 23.0 88.6 CU 322

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AAA AAA	6	
1945					AAA AAA AAA AAA	6	
1946							
1947					AAA AAA AAA NAA	6	
1948					AAA AAA AAA AAA	6	
1949					AAA AAA AAA AAA	7	
1950					AAA AAA AAA AAA	6	
1952					AAA AAA AAA AAA	8	
1953					AAA AAA AAA AAA	8	
1954					AAA AAA AA AAA	6	
1955					AAA AAA AAA AAA	9	

CALCUTTA (CONTINUED) 23.0 88.6 CU 322

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					AAA AAN NNN ABB	8	
1957		WWW WWW			ABA AAA AAA AAA	9	
1958		WWW WWW WWW WWW			AAA BBB BAS AAA	9	
1959		WWW NNN NWW WWW			AAA NNN NBB BAA	9	
1960					AAB S	9	
1964					BB AAA ABB	9	MM MMM MMM
1965					ABA BBB BBA ABB	9	MMM MMM MMM MMM
1966					NAA ABA AAA BAA	9	MM MMM MMM
1967					AAA BAA AAB BBB	9	M MMM MMM MMM
1968					AAA BAA AAA AAA	10	MMM MMM MMM MMM
1969					AAB AAB ABA AAA	10	MMM MMM MMM MMM
1970					AAA AAA BAA AAB	10	MMM MMM MMM MMM
1971					ABA AAB BAA BAA	10	MMM MMM MMM MM
1972					BAA BBA BAA AAA	10	MMM MMM MMM MMM
1973					AAA ABN AAB BNN	10	MMM MM MMM M
1974					BAA AAA AAA AA	10	MMM MMM
1975					BB	10	
1976					B S	10	S

CAMDEN -34.0 150.67 CD

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1981					AAA A		

CAMPBELL IS -52.50 169.20 CI 65K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AAA AAA AAA	9	
1945					ANN NAA AAA AAA	12	
1946							
1947					NAA AAA AAA AAA	12	
1948					AAA AAA AAA AAA	12	
1949					AAA AAA AAA AAA	13	
1950					AAA AAA AAA AAA	13	
1951							
1952					AAA AAA AAA AAA	16	
1953					AAA AAA AAA AAA	15	
1954					AAA AAA AAA AAA	15	
1955		WWW WWW WWW WWW			AAA AAA AAA AAA	14	
1956					AAA AAA AAA AAA	14	
1957	B AA	WWW WWN WWW WWW	X		AAA AAN ABA AAA	13	
1958	AWW BWA AAA W W	WWN WWW WWW WWW	X		AAN BAA AAA AAA	13	
1959	WW W WW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	7	
1960		WWW WWN NWW WWW	X		AAA AAN NAA AAA	7	
1961		WWW WWW WWW WWW	X		AAA AAA AAA AAA	7	
1962	B B	WWW WWW WWW WWW	X		AAA AAA AAA AAA	8	
1963		WWW WWW WWW WWW	X		AAA AAA AAA AAA	8	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965		WWW WWW WWB WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	3	MMM M M M
1969					AAA AAA AAA AAB	4	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	4	
1977					AAA AAA AAA AAA	4	
1978					AAA AAA AAA AAA	11	
1979					AAA AAA AAA AAA	11	

CAMPBELL IS (CONTINUED) -52.50 169.20 CI 65K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980					A AAA	11	

CANBERRA -35.30 149.00 CB 53N

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1937					A AAA AAA AAA		
1938					AAA AAA AAA AAA		
1939					AAA AAA AAA AAA		
1940					AAA AAA AAA AAA		
1941					AAA AAA AAA AAA	10	
1942					AAA AAA AAA AAA	10	
1943					AAA AAA AAA AAA	10	
1944					AAA AAA AAA AAA	13	
1945					AAA AAA AAA AAA	11	
1946							
1947					AAA AAA AAA AAA	15	
1948					AAA AAA AAA AAA	15	
1949					AAA AAA AAA AAA	15	
1950					AAA AAA AAA AAA	9	
1951					AAA AAA AAA AAA	11	
1952					ABA NNN AAA AAA	11	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	10	T
1955					AAA AAA AAA AAA	10	
1956							
1957	WWW WWW	WWW WWW			AAA AAA AAA AAA	13	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	13	
1959	WWW WWW WWW WWW	WWW WWW W W WWW			AAA AAA AAA AAA	8	
1960	WW WWW WW				NNN AAA AAA AAA	6	
1961					AAA ANN AAA AAA	3	
1962					AAA AAA AAA AAA	3	
1963					AAA AAA AAA AAA	3	
1964	BB B B				AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965	BB B				AAA ABA AAA AAA	11	MMM MMM MMM MMM
1966	B BB B				AAA AAA AAA AAA	5	TTT TTT TTT TTT
1967	BB BBB				AAA AAA AAA AAA	5	TTT TTT TTT TTT
1968	B B B				AAA AAA AAA AAA	5	MMM MMM MM
1969	BB				AAA AAA AAA AAA	7	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	12	MMM MMM MMM MM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	13	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AAA A A	13	
1981					AAA AAA	13	

CAPE HALLETT -72.30 170.20 HT 67K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AA AAA AAA	WWW WWW	X		AAA AAA	13	
1958	AAA AAA ABA AAB	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1959		WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1960		WWW BWW WWW WBW	X		AAA AAA AAA AAA	7	
1961		WWW WWW WWW WWW	X		AAA AAA AAA AAA	7	
1962		WWW WWW WWW WWW	X		AAA AAA AAA AAA	8	
1963		WWW WWW WWW WWW	X		AAA AAA AAA AAA	14	
1964		WWS			AAS	14	MMS

CAPE KENNEDY 28.40 279.40 CC 929

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958	A	AAA	AAA	AAA	A	ABA	AAA	AAA	X	A	AAA	AAA	AAA	A	AAA	AAA	AAA	13	T	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	BAA	AAA	AAA	X	BS								13				
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									7				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAB	AAB	X									7				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									7				
1963	BBA	AAA	AAA	AAA	BBA	AAA	AAA	AAA	X									7				
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	B	AAA	AAA	AAA					8		AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					8	MMM	MM	MMM	MM
1966	AAA	AAA	AAA	BBB	AAA	AAA	ABB	B	X	AAA	AAA	ABB	B					8				
1967	BBB	BS																		S		

CAPE CANAVERAL RENAMED CAPE KENNEDY MARCH 1964

CAPE SCHMIDT 68.90 179.50 CE 669

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	W W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	W	WW			NAA	AAA	AAA	ANA	X					NAA	AAA	AAA	ANA	14				
1963								AA	X								AA	14				
1964					AA				X					AA				14	M			
1968					A	A	AAA	AAA	X					A	A	AAA	AAA	14	M	M	MMM	MMM
1969					AA	AAA	AAA	AAA	X					AA	AAA	AAA	AAA	14	MM	MMM	MMM	MMM
1970					AA				X					AA				14	MM			

CAPETOWN -34.10 18.30 CT 13M

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1944														AAA	AAA	BBA	AAA	4				
1945														AAA	AAA	AAN	NAA	4				
1946																						
1947																						
1948																ANA	AAA	10				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	10				
1951														AAA	AAA	AAA	AAA	10				
1952														AAA	AAA	AAA	AAA	10				
1953														AAA	AAA	AAA	AAA	10				
1954														AAA	AAA	AAA	AAA	10				
1955														AAA	AAA	AAA	AAA	10				
1956														AAA	AAA	AAA	AAA	10				
1957							WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1958					WWW	WWW	W W	WWW	X					AAA	AAB	ABA	AAA	13				
1959			BA	AAB	WWW	W	WW	WWW	X					AAA	BAA	AAA	AAA	13				
1960			BA	AAB										AAA	AAA	AAA	BAA	13				
1961			A	AA														13				
1962														AAA	A	B	NNB	10				
1963														AAA	AAA	ABA	AAA	10				
1964					WWW	WWW	BNN	NNN	X					AAA	AAA	ANN	NNN	10	MMM	MMM	M	
1965							WWW	WWW	X													
1967														BAA	ABA	ABN	AAA	8	MM	MM		
1968														AAA	AAA	ABA	BAA	13	MMM	MMM	MMM	MMM
1969					WWW	W	WW	W						AAA	AAA	AAA	AAA	13		M		MM
1970					W									AAA	AAB	AAA	AAA	13	MMM	MMM	MMM	MMM
1971														AAA	BAS			13	MMM	MMS		

REPLACED BY HERMANUS

CAPE YORK -11.0 142.40 07 51J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					A	18	
1945					AAA AAA AAA AAA	20	

CAPE ZEVGARI 34.60 32.90 CV 135

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964		AAA AA	X	A	AAA AAA AAN	12	MMM MMM MM
1965		BAA AAA AAA	X	AAA AAA AAA	AAA AAA AAA	12	MMM MMM MMM
1966		AAA AAA AAA ANA	X	AAA AAA AAA ANA	AAA AAA AAA ANA	12	MMM MMM MMM M M
1967		AAB AAB AB	X	AAB AAB AAA AAA	AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968				A	A	12	
1970					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					ANA AAA AAA AAA	12	M M MMM MMM MMM
1972					AAA AAA AAA A	13	MMM MMM MMM M

CASABLANCA 33.60 352.40 CA 033

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					A AAA	9	
1952					AAA AAA ANN AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA ANA AAA	10	
1956					AAA AAA AAA AAA	10	
1957		WWW WWW	X		AAA AAA AAB AAA	12	
1958		WS	X		AS	12	

CASEY -66.28 110.53 CW 460

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1969					A AAA AAA AAA	11	M MMM MMM MMM
1970					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	12	TMM MMM MMM MMM
1976					S		S

REPLACED WILKES

CHICLAYO -06.80 280.20 CY 90P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	BAA AAB	BAA AAB	X	BAA AAB	BAA AAB	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	BS	BS	X	BS	BS	13	S

REPLACED BY ILO

CHIMBOTE -09.10 281.40 CM 90R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1959	AAA AAS	AAA AAS	X	AAA AAS	AAA AAS	13	TTT TTS

CHITA 52.0 113.5 CX 452

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					MMM MMM MMM	2	
1956					M M	7	
1957		W	X		M MM AAA ABB	13	
1958					AAA AAA BAA AAA	3	
1959		WWW WWW WWW NWW	X		AAA AAA AAA BAA	13	
1960		WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1961		WWW WWW WWW WWW	X		AAA AAA ABA AAA	13	
1962		WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1963		WNW WS	X		BNA AS	12	

CHRISTCHURCH -43.60 172.80 GH 64L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1942					AA AAA	8	
1943					AAA ANN AAA AAA	8	
1944					AAA AAA AAA AAA	10	
1945					AAA AAA AAA AAA	12	
1946					AAA AAA AAA AAA	12	
1947					AAA AAA AAA AAA	12	
1948					AAA AAA AAA AAA	12	
1949					AAA AAA AAA AAA	12	
1950					AAA AAA AAA AAA	12	
1951							
1952					AAA AAA AAA AAA	14	
1953					AAA AAA AAA AAA	14	
1954					AAA AAA AAA AAA	13	
1955					AAA ANN NBA AAA	13	
1956					AAA AAA AAA AAB	13	
1957	WWW WWW	WWW WWW	X		AAB ABA AAA AAA	14	
1958	WW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	14	
1959	WWW W W WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1960	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1961		WWW WWW WWW WWW	X		AAA BAA AAA AAA	13	
1962	BAA ABA	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1963	B A	WWW WWW WWW WWW	X		AAA AAA AAA AAA	14	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965	A	WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967		WWW WWW WWW WWW			AAA AAA AAA AAA	14	M MMM MMM
1968		WWW WWW WWW WWW			BBB AAA BBB AAA	14	MM MMM MMM MMM
1969					AAA AAA AAA AAA	14	
1970					BAA AAA BAA AAA	11	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	11	
1977					AAA AAA AAA AAA	11	
1978					AAA AAA AAA AAA	11	
1979					AAA AAA AAA AAA	11	
1980					A AAA	11	

CHRISTMAS IS 1.90 202.70 08 701

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					A	10	
1945	AAA AAA AAA				AAA AAA AAA AAA	11	
1946	A				AAA AAA S	11	

CHUNGKING 29.40 106.30 09 429

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AA AAA	4	
1946					AAA AAA AAA AAA	11	
1947					AAA AAA AAA AAA	12	
1948					AAA AAA AAA AAA	12	
1949					AAA AAA AAA AS	12	

CHURCHILL 58.80 265.80 CH 958

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					AA AAA	13	
1944					AAA AAA AAA AAA	12	
1945					AAA AAA AAA AAA	13	
1946					AAA AAA AAA AAA	13	
1947					A A A AAA	15	
1948					AAA AAA AAA AAA	15	
1949					AAA AAA AAA	13	
1950					AAA AAA AAA AAA	14	
1951	A				AAA AAA AAA AAA	14	
1952					AAA AAA AAA AAA	13	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	11	
1955					AAA AAA AAA AAA	11	
1956					AAA AAA AAA AAA	9	
1957	AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1959	AAA AAA AAA AAA	AAA ABA AAA AAB			AAA AAA AAA AAA	10	
1960	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	
1961	AAA AAA AAA AAB	AAA AAA AAA AAB			AAA AAA AAA AAB	10	
1962	AAA AAA ABA AAA	AAA AAA ABA AAA			AAA AAA ABA AAA	11	
1963	BAB AAA AAA AAA	BAB AAA AAA AAA			AAB AAA AAA AAA	11	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1968	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1969	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1970	AAB AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT AAA AAA
1971	AAA AAA AAA ABA	AAA AAA AAA ABA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1972	AAA AAA AAB BAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1977	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	12	TT TTT TTT TTT
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1980	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1981		AAA AAA A			AAA AAA AAA	12	TTT TT TT

CLYDE RIVER 70.50 291.40 CR J70

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					AAA	11	
1944					AAA AAA AAA AAA	20	
1945					AAA AAA AAA AA	18	
1946					AAA AAA AAA AAA	10	
1947					AAA AAA AAA AAA	10	
1948					AAA AAA AAA AAA	10	
1949					AAA AAA AA AAA	10	
1957	WW WWA WWW	AAA	X		AAA	8	
1958	AAA AAA AAA AAA	AAA AAA AAA A	X		AAA AAA AAA A	8	

COCOA 28.20 279.40 10 928

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952	AAA AAS			AAA AAS		11	

COCOS IS -12.20 96.80 CS 31K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1961					BB	2	TT
1962	B				BBB BAB BAA AAA	7	TTT TTT TTT TTT
1963					AAA BNB BAA AAA	6	TTT T T TTT TTT
1964					ANN BAA AAA AAA	11	T TTT TTT TTT
1965					AAA AAB AAA AAA	11	TTT TTT TTT TTT
1966	BA				AAA AAA AAA ABA	5	TTT TTT TTT TTT
1967					AAB AAA AAA AAA	5	TTT TTT TTT TTT
1968					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1969					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1972					AAA AAA AAB BAA	7	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1974					AAA AAA AAA S	6	TTT TTT TTT S

COLLEGE 64.90 212.20 CO 764

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1941	AA AAA				AAA AAA	9	
1942	AAA AAA AAA AA				AAA AAA AAA AAA	18	
1943	AAA AAA AAA AAA				AAA AAA AAA AAA	18	
1944	AAA AAA AAA AAA				AAA AAA AAA AAA	18	
1945	AAA AAA AAA AA				AAA AAA AAA AAA	10	
1946	BAA AAA AA AAA				AAA AAA AAA AAA	9	
1947	AAA AAA AA AAA				AAA AAA AAA AAA	9	
1948	AAA AAA AAA AAA				AAA AAA AAA AAA	9	
1949	AA AAA AAA AAA				AAA AAA AAA AAA	9	
1950	AA AAA AAA AAA				AAA AAA AAA AAA	9	
1951	AAA AAA AAA AAA			AA AAA AUA AAA	A A A A	13	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AA AAA	13	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	A A A AAA	13	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	8	
1957	AAA AAA AAA AAA	AAA AA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	13	TTT TTT TTT TTT
1958	AAB AAB AAA AAA	AAB AAA AAA AAB	X	AAB AAA AAA AAB	AAA AAA AAA AAA	13	TT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA ABB AAA	X	AAA AAA ABB AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1960	AAA AAA AAA AAB	AAA AAB AAA AAA	X	AAA AAB AAA AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA ABA AAA	X	AAA AAA ABA AAA	AAA AAA AAA AAA	7	TTT TTT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1963	AAA AAA AAA ANA	AAA AAA BUU UNA	X	AAA AAA BUU UNA	AAA AAA B NA	7	

COLLEGE (CONTINUED) 64.90 212.20 CO 764

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964	AAA AAA AAA AAA	ABA AAA BAA BAA	X	ABA AAA BAA ABA	AAA AAA BAA AAA	10	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1967	AAA AAA AAA AAA	AAA AAA ABA AAA		AAA AAA ABA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1968	AAA AAA AAA AAA						
1969	AAA AAA BNB AAB						
1970	BBB BAA AAA AAA						
1971	AAA AAA AAA AAA			AA A		13	AA A
1972	AAA AAA AAA AAA			A AAA		8	
1973	AAA BAA BBN NBB			AAA BAA		8	
1974	A A ABB BAA AAA						
1975	AAA AAA AAA AAA						
1976	AAA AAA AAA A						
1977	AAA AAA AAA AAA						
1978	AAA UUA AAA AAA						
1979	AAA AAA AAA AA						

COLOMBO 6.90 79.87 11 306

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A AAA AA	6	
1946					A AAA	3	

CONCEPCION -36.60 287.00 CP J30

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA	BAA	X	BAA	AA	13	TTT
1958	BBA AAN BAA AAA	BBA AAA AAA ABA	X	BBA AAA AAA ABA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAB	BBB BBA AAA AAA	X	BBB BAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA BAA AAA AAA	AAA AAA AAA ABA	X	AAA AAA AAA ABA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	BAA BAB BAA AAA	X	BAA BAB BAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TT
1962	AAA AAA AAA AAA	AA B	X	AA B	AA B	11	TT
1963	AAA AAA AAA AAA	AAB ABA ABB AAA	X	AAB ABA ABB AAA	AAA AAA AAA AAA	10	AAA AAA AAA AAA
1964	AAA AAA AAB BAA	AAA AAB AAB BAA	X	AAA AAB AAB BAA	AAA AAA AAA BAA	10	AAA AAA AAA AAA
1965	AAA ABN AAA AAA	BAA ABN BBA BAA	X	BAA ABN BBA BAA	AAA AAN AAA AAA	10	TTT T
1966	AAA AAB AAA AAA	ABA ABB AAA AAA	X	ABA ABB AAA AAA	AAA AAB AA A	10	MMM MMM MMA AAA
1967	AAA AAA AAA AAA	AAA ABB BBB		AAA AAA AAA	A AAA AAA AAA	10	AAA AAA AAC
1968	AAA AAA AAA AAA			ABA AAA AAB AAA	AAA AAA AAA AAA	12	AAA AAA A A AAA
1969	AAA AAA AAA AAA	AAA ABA AAA ABA	X	AAA ABA AAA ABA	AAA AAA AAA AAA	15	CA AAA ACC CCC
1970	AAA AAA AAA AAA	AAA AAB AAA AAA	X	AAA AAB AAA AAA	AAA AAA AAA	13	AAA AAA AAA AAA
1971	AAA AAA AAA AAA	AAA ABA AAA AAB	X	AAA ABA AAA AAB	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA A A	16	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	AAA AAA AAA A
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	AAA
1975	AAA AAA AAN NNA	AAA AAA AB A		AAA AAA AB A			AAA A
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA	A A AAA AAA AAA		AAA AAA AAA AAA			C C
1978	AAA AAA AAA AAA	AAA AAA AAA AAA		A A AAA AAA AAA			A A
1979	AAA AAA A	AAA AAA AAA AAA		AAA AAA AAA AAA		15	

CUBA 23.00 278.00 CD

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964	AA AAA	AA AAA	X		AA AAA	4	MM MM
1965	AAA AAA AAN AAA	AAA AAA AA	X		AAA BAA AB	11	M M MMM MMM
1966	AAA ANA AAA AAB						
1968	AAA W W AAA WWW	AAA	X		AAA ABA AAA	12	MMM MMM MM
1969	W	AA			AA	12	MM

DAIREN 39.0 121.60 12 439

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					B	6	
1945					BB	6	

DAKAR 14.70 342.58 DK A14

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949					AB AAA AAA	11	
1950					AAA AAA AAA AAA	13	
1951					AAA AAA AAA AAA	20	
1952					AAA AAA AAA AAA	23	
1953					AAA AAA AAA AAA	28	
1954							
1955							
1956					AAA AAA AAA AAA	12	
1957		W WW	X		AAA AAA AAA AAA	12	
1958		WW	X		AAA ABA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961	B ABB B				AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	B B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966	A				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969	AB				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970	B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAA NAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA ABA NA A	14	
1979					BA AAA AAA	14	
1980					ABN BAA A A AAA	14	

DE BILT 52.10 5.20 DT 053

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949					AA	9	
1950					AAN AAA NAA AAA	11	
1951							
1952					NAA AAA AAA AAA	13	
1953					AAA AAA AAA AAA	13	
1954					AA AAA AAA AAA	13	
1955					AAA AAA AAA AAA	12	
1956					AAA AAA AAA AAA	16	
1957					AAA AAA AAA AAA	15	
1958					AAA AAA AAA AAA	14	
1959					AAA AAA AAA AAA	17	
1960					AAA AAA AAA AAA	17	
1961					AAA AAA AAA AAA	16	
1962					AAA AAA AAA AAA	16	
1963					AAA AAA AAA AAA	16	
1964		AAA AAA AAA AAA	X		AAA AAA AAA AAA	16	MMM MMM MMM MMM
1965		AAA AAA AAA AAA	X		AAA AAA AAA AAA	16	MMM MMM MMM MMM
1966		AAA AAA AAA AAA	X		AAA AAA AAA AAA	16	MMM MMM MMM MMM
1967					AAN NNN NNN NAA	16	M
1968		W			ABA AAA ABA AAA	16	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	16	MMM MMM MMM

DE BILT (CONTINUED) 52.10 5.20 DT 053

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	18	MMM MM M MM
1976					AAA AAA AAA AAA	18	
1977					AAA AAA AAA AAA	18	
1978					AAA AAA AAA AAA	18	
1979					AAA AAA AAA AAA	18	
1980					AAA AAA AAA AAA	18	
1981					AAA AAA AA	18	

DECEPCION -63.0 299.30 DE J6L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					MMM MMM		
1952					AA AAA AAA AAA	6	
1953					AAA AAA AAA AAA	4	
1954					AAA AAA AAA AAA	5	
1955					AAA AAA AAA AAN	7	
1956							
1957		AAA A			AAA AA	12	
1958		BBB BBA BAA ABB			BBA ABA AAA ABB	12	
1962					B	13	
1963					AAA	13	

DELHI 28.60 77.16 DH 328

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1942					AAA AAA AAA AAA	1	
1943					AAA AAA AAA AAA	1	
1944					AAA AAA AAA AAA	1	
1945					A AAA	3	
1946					AAA AAA AAA AAA	9	
1947					AAA AAA AAA AAA	3	
1948					AAA AAA AAA AAA	3	
1949					AAA AAA AAA AAA	3	
1950					AAA AAA AAA AAA	3	
1951					AAA AAA AAA AAA	3	
1952					AAA AAA AAA AAA	3	
1953					AAA AAA AAA AAA	3	
1954					AAA AAA AAA AAA	3	
1955					AAA AAA AAA AAA	4	
1956					AAA AAA AAA AAA	3	
1957					AAA AAA AAA AAA	3	
1958					AAA AAA AAA AAA	7	
1959					AAA AAA AAA AAA	7	
1960					AAA AAA BAB AAA	7	
1961					AAA AAA AAA AAA	7	
1962					AAA AAA AAA AAA	7	
1963					AAA AAA AAA AAA	11	
1964					ABB BBA AAB ABA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA BBA AAA AAB	12	M MMM MMM MMM
1968					AAA AAB AAA AAA	12	MMM MMM MMM MMM
1969					AAA AAA ABB AAA	12	MMM MMM MMM MMM
1970					AAA AAA BAA AAB	12	MMM MMM MMM MMM
1971					AAA ABA AAA AAA	12	MMM MMM MMM MMM
1972					AAA BAA AAB BAA	12	MMM MM M M M
1973					AAA AAA AAA AAA	12	MMM MMM MMM MM
1974					ABA AAA AAA AAA	12	MMM M

DELHI (CONTINUED) 28.60 77.16 DH 328

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1975														AAA	AAA	AAA	AAA	12				
1976														AAA	AAA	AAA	AAA	12				
1977														AAA	AAA	AAA	AAA	12				
1978														ABB	A	AAA	AAA	12				
1979														AAA	AAA	A	AAA	5				
1980														AAA	AAA	AA	A	5				

DIXON 73.50 80.40 DI 373

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957			WWW	WWW			AAA	AAA	X							AAA	AAA	12				
1958		WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	BAA	AAA	13				
1959	WWW	WWW	WWW	WWW	ABA	AAA	NAA	AAA	X					ABA	AAA	NAA	AAA	13				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	NBA	X					AAA	AAA	AAA	NBA	13				
1961	WWW	WWW	WWW	NNN	ABA	AAA	AAA	NNN	X					ABA	AAA	AAA	NNN	13				
1962	NNN	NNN	NNN	NNN	NNN	NNN	NNN	NNN						NNN	NNN	NNN	NNN					
1963	WWW	WWW	WWW	WWW	NAA	AAA	AAA	AAA	X					NAA	AAA	AAA	AAA	13				
1964	WWW	W W	WWW	NW	AAA	AAA	AAA	ANA	X					AAA	AAA	AAA	ANA	13	M	M	MMM	MM M M
1965	WWW	WW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	M	M	MMM	MM MMM
1966	WWN	WWW	WWW	WWW	AAA	BBA	ABA	AAA	X					AAA	BBA	ABA	AAA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	M M	M M
1969	WWW	WWW	WWW	W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	M M	M M
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1972	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1974	WWW	WWW	W W	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1976	WWW	WWW	WWW	WWW																		

DJIBOUTI 11.50 42.80 DJ 111

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1951																	AAA	19				
1952														AA	AAA	AAA	AAA	22				
1953														AAA	AAA	AAA	AAA	22				
1954														AAA	AAA	AAA	A A	1				
1955														AAA	B A	BBA	A A	1				
1956														AAA	AAA	AAA	A	12				
1957							WW	W	X					AAA	AAA	AAA	AAA	12				
1958														AAA	AAN	NNA	AAA	12				
1959														AAA	AAA	AAA	AAA	12				
1960														AAA	AAA	AAA	AAA	12				
1961														AAA	AAA	AAA	AAA	12				
1962														AAA	AAA	AAA	AAA	12				
1963														AAA	AAA	AAA	AAN	12				
1964														BAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1965		B	B											AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966				A										AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1967														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1968														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1969														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1970														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1971														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1972														AAA	AAB	AAB	AAA	14	TTT	TTT	TTT	TTT
1973														AAB	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1975														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1976														AAA	AAA	AAA	AAA	14	TTT	TTT	TTT	TTT
1977														AAA	AAA	AAA	BAA	14	TTT	TTT	TTT	TTT
1978														AAA	AAA	AAA	AAA	14				
1979														AAA	AAA	AA	A	14				

DJIBOUTI (CONTINUED) 11.50 42.80 DJ 111

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980					AAA AAA AAA AAA	14	

DOMONT 49.00 2.30 13 062

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1950					AAA AAA AAA	9	
1951					AAA AAA AAA AAA	9	
1952					AAA S	4	

REPLACED BAGNEUX

DOURBES 50.10 4.60 DB 049

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957					AAA AAA	15	
1958					AAA AAA AAA AAA	16	
1959					AAA AAA AAA AAA	16	
1960					AAA BAA AAA AAA	16	
1961					AAA AAA AAA AAA	16	
1962					AAA AAA AAA AAA	16	
1963					AAA AAA AAA AAA	16	
1964					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1967					AAA AAA ABA AAA	15	MM M MM
1968					AAA AAA AAA AAA	15	MMM MMM MMM M
1969					AAA BAA AAA AAA	15	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1973					AAA AAB AAA AAA	16	MMM MMM MMM MMM
1974					AAA AAA AAA AA	16	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	16	MMM MMM MMM MMM
1976					AAA AA AAA AAA	16	
1977					AAA AAA AAA AAA	16	
1978					AAA AAA AAA AAA	16	
1979					AAA AAA AAA AAA	16	
1980					AAA AAA AAA AAA	16	

DUSHANBE 38.57 68.78 DS 238

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1971			X	B	MMM MMM MMM MMM	8	

EGLIN AFB 30.38 273.30 EG 930

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964	B B BB						
1965	B						
1966	B						
1967	B						
1969	AS						

INTERMITTENT OPERATION

EIGHTS -75.23 282.84 EI 97N

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1961	B	B		B			
1962		AB		A			
1964	AA						
1965	BAA AAA AAA AB	B AAA AAB	S	S			

ELIZABETHVILLE -11.60 27.50 EZ 11J

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1955					A AAA AAA AAA	20	
1956					AAA AAA AAA AAA	20	
1957					MMM MMM AAA AAA	21	
1958					AAA AAA AAA AAA	21	
1959					AAA AAA AAA AAA		
1960					AAA AAA S		

ELLSWORTH -77.72 318.90 EL A7P

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	BA BAA AAA	BAA AAA	X	BAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959		A NBA AAA AAA			AAA NAA AAA AAA	13	
1960		AAA AAA			AAA AAA AAA AAA	13	
1961	AAA AAA AAA AAA				AAA BAA AAA AAA	13	
1962	AAA AAA AAA AAS	BAA AAS			AAA NNN BAA AAS	13	S

ERIE 40.01 254.70 ER 842

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1970	BB BBB BBB						
1971	BB BBB BB BBB						
1972	BBB BBB BBB BBB						
1973	BB BBB						

INTERMITTENT OPERATION

EUREKA 80.0 274.10 EU 980

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AAA AWW	B AAA		B AAA	B AAA	8	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	8	
1959		AS		AS	AS	4	

FIJI -18.00 178.20 14 61Q

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1946					AAA ABA BB	11	
1947					ABB AAA AAA AB	11	
1948					ANA S	11	

FLETCHERS ICE 75.90 235.70 XC 982

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	S	S		S	S		S

DRIFTING STATION

FORTALEZA -3.75 321.20 FZ AOM

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1975	AB BAA			AAA AAA			
1976	AAA AAA AAA BAA						
1977	AAA A						

FORT ARCHAMBAULT 09.20 18.35 FA 109

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1969					BAB NAA AAA AAA	12	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	13	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA ABA BBA AAB	14	TTT TTT TTT TTT
1973					BAA AAA AA	14	TTT TTT TTT
1974					S		S

FORT CHIMO 58.10 291.60 FC J58

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1949	BA AAA AAA				A A AAA AAA	13	
1950	AAA AAA AAA AAA				AAA AAA AAA AAA	13	
1951	AA AAA AAA AAA				AAA AAA AAA AAA	13	
1952					AAA AAA AAA AAA	12	
1953					AAA AAA AAA AAA	10	
1954					AAA AAA	10	
1957	W W WWW						
1958	WWA AAA AAA AAA	A AAA BNB BAB		A AAB NB BAA	A AA	8	
1959	S	S		S	S		

FORT MONMOUTH 40.40 285.90 FM J40

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1950	A						
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1952	NAA AAA AAA AAA			NAA BAA AAA AAA	NAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	12	TTT TTT TTT TTT
1958	AAA AAA AAA AAA	BAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	12	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	12	TTT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAB	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1961	AAA AAA NNB AAA	AAA AAA NNB AAA	X	AAA AAA NNB AAA	AAA AAA NNN AAA	13	TTT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT

FORT MONMOUTH (CONTINUED) 40.40 285.90 FM J40

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1966	S	S		S	S		S

FORT NORMAN 64.90 234.50 FN 864

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	AW W	A A		A	A	8	
1958	AAA						

FRASERBURGH 57.60 357.90 15 065

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1948					A AAA AAA AAA	4	
1949					AAA AAA AAA AAA	4	
1950					AAA AAA AAA AAA	4	
1951					AAA AAA AAB S	4	

REPLACED BY INVERNESS

FREIBURG 48.10 07.60 FR 048

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1946					AAA AAA	16	
1947					AAA AAA AAA AAA	15	
1948					AAA AAA AAA AAA	14	
1949					AAA AAA AAA AAA	14	
1950					AAA AAA AAA AAA	14	
1951					AAA AAA ANA AAA	18	
1952					AAA AAA AAA AAA	20	
1953					AAA AAA AAA AAA	26	
1954					AAA AAA AAA AAA	22	
1955					AAA AAA AAA AAA	22	
1956					AAA AAA AAA AAA	19	
1957	W WWW WWW	WWW WW			AAA AAA AAA AAA	19	
1958	WWW WWW WWW WWW				AAA AAA AAA AAA	18	
1959					AAA AAA AAA ABA	18	
1960					AAA AAA AAA AAA	18	
1961					AAA AAA AAA AAA	18	
1962					AAA AAA AAA AAA	18	
1963					AAA AAA AAA AAB	18	
1964	B B				AAA AAA AAA AAA	18	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	18	MM M
1968					AAA AAA AAA AAA	18	MMM MMM MMM M M
1969					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1971	B				AAA AAA AAA AAA	18	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM
1975					AAA AAA AAA AAA	18	MM MMM MMM MMM
1976					AAA AAA AAA AAA	18	
1977	S	S		S	S		S

FROBISHER BAY 63.80 291.40 FB J63

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	W WW	B BA		B BA	B BA	8	
1958	AAA A A AAA	B BNA BAA		B BNA BAA	A BNA BAA	8	
1959		AS		AS	AS	6	

FUKAURA 40.60 139.90 16 541

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1947					B BBB AAA AAA	8	
1948					AAA AAA AAA AAA	9	
1949					AAA AAA AAA AAS	9	

GARCHY 47.30 03.1 GY 042

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1959		WWW	X		AAA	6	
1960					AAA AAA AAA NNN	12	
1961		WW WWW	X		AAA AAA AAA AAA	12	
1962		WWW	X		AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAB BBA	12	MMM MMM
1968					AAB BAA AAB BBB	12	MMM MMM MMM MMM
1969					ABB BAB AA BAA	12	MMM MM
1970					ABA AAA AAA BAA	12	MMM MMM MMM MMM
1971					AAA BBA ABA BAA	14	
1972					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	14	MMM MMM MMM MMM

GENOVA 44.60 09.00 GV 044

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1956					AA AAA AAA	2	
1957					AAA AAA AAA AAA	2	
1958					AAA AAA AAA AAA	3	
1959					AAA AAA AAA AAA	3	
1960					AAA AAA AAA AAA	5	
1961					AAA AAA AAA AAA	5	
1962					AAA AAA AAA AAA	5	
1963					NNN BAA AAA AAA	5	
1964					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	5	MM MMM MMM MMM
1970					BBA AAA AAA AAA	5	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1972					BBA AAA AAA AAA	5	MMM MMM MMM MMM
1973					AAA AAA AAA AAB	5	MMM MMM MMM MMM
1975					S		S

CLOSED, 1975

GIBILMANNA 37.59 14.01 GM 037

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1977					A AAA AA	16	
1978					AA AAA AAA AAB	16	
1979					BAA AAA AAA A A	16	
1980					B	16	

GODHAVN 69.30 306.50 GO J69

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951	AA			AA	AA	5	
1952	AAA AAA BNA AAA			AAA AAA ANA AAA	AAA AAA ANA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA ABN NNA			AAA AAA ABN NNA	AAA AAA ABN NNA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAB NAA	A A AA		AAA AAA AAA AA	AAA AAA AAB NAA	8	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	11	TT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	10	TTT TTT TTT TTT
1959	AAA AAA AAA BNN	AAA AAA AAA BNN	X	AAA AAA AAA BNN	AAA AAA AAA BNN	11	TTT TTT TTT T
1960	BAA AAA AAA AAA	BAA AAA AAA AAA	X	BAA AAA AAA AAA	BAA AAA AAA AAA	11	TT TTT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1962	AAA AAA AAA AAB	AAA AAA AAA AAB	X	AAA AAA AAA AAB	AAA AAA AAA AAB	11	TTT TTT TTT TTT
1963	ANB AAA AAA ABB	ANB AAA AAA ABB	X	ANB AAA AAA ABB	ANB AAA AAA ABB	11	
1964	UAA AAA AAA AAA	UAA AAA BBB AAA	X	UAA AAA BBB AAA	UAA AAA BBB AAA	6	AAA AAA AAA AAA
1965	AAA AAA AAA ABA	AAA AAA AAA ABA	X	AAA AAA AAA ABA	AAA AAA AAA AAA	6	TTT TTT TTT TTT
1966	BAB AAA AAA AAA	BAB AAA AAA AAA	X	BAB AAA AAA AAA	AAA AAA AAA AAA	6	MMM MMM MMM MMM
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	6	CCC CCC CCC CCC
1968	AAA AAA ABA AAA	AAA AAA ABA AAA	X	AAA AAA ABA AAA	AAA AAA AAA AAA	6	AAA AAA AAA AAA
1969	AAA AAA AAA AAA	AAA ABA AAA AAA	X	AAA ABA AAA AAA	AAA AAA AAA AAA	6	AAA AAA AAA AAA
1970	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	7	AAA AAA AAA AAA
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	7	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	17	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	18	AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	16	AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AA	12	AAA AAA AAA
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		15	A A
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		15	
1980	AAA AAA A	AAA AAA AAA AAA	X	AAA AAA AAA AAA		15	
1981		AAA AAN NNN N	X	AAA AAN NNN N		15	

GOOSE BAY 54.30 299.67 GS J53

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1972					AA AAA AAA	17	MMM MMM MMM
1973					AAA AAA AAA AAA	17	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	17	MMM MMM MMM MM
1975					AA AAA AAA AAA	16	
1976					AAA AAA AAA AAA	16	
1977					AAA AA	16	
1978					A AAA AA	17	
1979						17	
1980					AAA AA A	17	
1981					AA	17	

GORKY 56.15 44.28 GK 156

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	A AAA AAA AAA	A AAA AAA AAA			A AAA AAA AAA	14	
1959	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	3	

GORKY (CONTINUED) 56.15 44.28 GK 156

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1960	WWW	WWW	WNW	WWW		ABA	ANA	AAA	X		ABA	ANA	AAA		ABA	ANA	AAA	14				
1961	WWW	WWW	WWW	WWW	ABA	AAA	BBA	AAA	X	ABA	AAA	BBA	AAA	AAA	AAA	BBA	AAA	14				
1962	WWW	WWW	WWW	WWW	AAA	BBB	AAB	BBA	X	AAA	BBB	AAB	BBA	AAA	BBB	AAB	BBA	14				
1963	WWW	WWW	NWW	WWW	BBA	AAA	BBA	AAA	X	BBA	AAA	BBA	AAA	BBA	AAA	BBA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	BBA	ABA	X	AAA	AAA	BBA	ABS	AAA	AAA	BBA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAB	BBA	AAA	BAA	X					AAB	BBA	AAA	BAA	14	MMM	MMM	MMM	MMM
1966	WWW	WWW	WWW	WWW	AAA	ABA	AAA	AAA	X					AAA	ABA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW	WWW	AAA	AAA	BBA	AAA	X					AAA	AAA	BBA	AAA	9	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	9	MMM	MMM	MMM	MMM
1974	W	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	9	MM	MMM	MMM	MM
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AA	X					AAA	AAA	AAA	AA	9				
1976	WWW	WW	WWW	WWW		AAA	AA		X						AAA	AAA	ABB	10				
1977	W	WWW	WWW	WWW	BA	AAA	AAA	AAA	X					BAA	AAA	AAA	AAA	10				
1978	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	10				
1979	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	10				
1980	WWW				AAA	AAA	AA	AA	X					AAA	AAA	AAA	AA	10				

GRAHAMSTOWN -33.30 26.50 GR 13L

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1958															B	BBA	AAA	AAA	6			
1959														AS				6				
1965														NAB	NAA	AAA	AAB	10	MM	MM	MMM	MMM
1972																AAA	AAB	13			MMM	MMM
1973														AAA	AAA	AAA	A	13				
1976														AAA			A	AAA	13			
1977														AAA	AAA	AAA	AAA	13				

GRAND BAHAMA 26.60 281.80 GB 926

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957			AAA	AAA			AAA	AAA	X			AAA	AAA			A	AAA	AAA	15		T	TTT	TT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	B	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	TTT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAU	AAA	AAA	AAA	AAU	X	AAA	AAA	AAA	AAU	AAA	AAA	AAA	AAU	15	TTT	TTT	TTT	TT
1961	UUA	AAB	UUU	AAA	UUA	ABA	UUU	AAA	X	UUA	ABA	UUU	AAA	A	ABA		AAA	15	T	TTT		TTT
1962	AAA	AAA	UAA	AAA	AAA	AAA	UAA	AAA	X	AAA	AAA	UAA	AAA	AAA	AAA	AA	AAA	15	TTT	TTT	TT	TTT
1963	AAB	AAA	AAA	AAA	AAB	AAA	AAA	AAA	X	AAB	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	AAA	AAA	AAA	AAA
1966	AAA	AAA	ABA	BBA	AAA	AAA	ABA	BBA	X	AAA	AAA	ABA	BBA	AAA	AAA	AAA	AAA	15	AAA	AAA	AAA	AAA
1967	AAA	ABA	AAA	ABB	AAA	ABA	AAA	ABB	X	AAA	ABA	AAA	ABB	AAA	AAA	AAA	A	15	AAA	AAA	AAA	AAA
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA			15	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA					15	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA					18	AAA	AAA	AAA	AAA
1971	AAA	AAB	S		AAA	AAB	S			AAA	AAB	S		AAA	AAA	S		18	AAA	AAA	S	

GRAZ 47.10 15.50 GZ 146

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1947																AA	AAA	5				
1948														AAA	AAA	ANA	AAA	4				
1949														AAA	AAA	AA	A	5				
1951														AAA	AAA	AAA	AAA	2				

GRAZ (CONTINUED) 47.10 15.50 GZ 146

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AAA AAA AAA AAA	2	
1953					AAA AAA AAA AAA	2	
1954					AAA AAA AAA AAA	2	
1955					AAA AAA AAA AAA	2	
1956					AAA AAA AAA AAA	2	
1957					AAA AAA AAA AAA	2	
1958					AAA AAA AAA AAA	1	
1959		WWW WWW WWW WWW	X		AAA AAA AAA AAA	2	
1960		WWW WWW WWW WWW	X		AAA AAA AAA AAA	2	
1961		WWW WWW WWW WWW	X		AAA AAA AAA AAA	2	
1962		WWW WWW WWW WWW	X		AAA AAA AAA AAA	2	
1963		WWW WWW WWW WWW	X		AAA AAA AAA AAA	2	
1964		WWW WWW WWW WWW	X		AAA AAA AAA AAA	2	
1965		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1966		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1967		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1968		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1969		WWW WWW WWW WWW	X		AAA BAA AAA AAA	1	
1970		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1971		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1972		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	MMM MMM MMM MMM
1973		WWW WWW WWW WWW	X		AA AAA AAA AAA	1	
1974		WWW WWW WWW WWW	X		AAA AAA AA AAA	1	
1975		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	MMM MMM
1976					A A AAA AAA AAA	1	
1977		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1978		WWW WWW WWW WWW	X		AAA AAA AAA AAA	1	
1979					AAA AAA AAA AAA	1	
1980					AAA AAA AAA AAA	1	
1981					A A	1	

GUAM 13.50 144.87 17 513

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					B	7	
1945	BNN NNN NNN NNA				BNN NNN NNN NNA	7	
1946	AA				AAA AAA NAA NNN	9	
1947	NNA AAA AAA AAA				NNA AAA AAA AAA	12	
1948	AAA AAA BA AB				AAB AAA AAA ABB	12	
1949	NNN AAA AAA AAA			NNN NAA AAA AAA	NNN NAA AAA AAA	12	
1950	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AS			AAA AS	AAA AS	10	

HAIFA 32.82 34.98 HA 132

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1960	B B	B BBB					
1961		BBB BBB BB					

HAINAN IS 18.30 109.30 18 419

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1942					B BBB BBB	2	
1943					BBB BBB S	2	

HALLEY BAY -75.50 333.40 HB A7N

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	WWW WWW	AAA AAA			AAA AAA	14	
1958	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1959	NNN NNN NNN NNN	NNN NNN NNN NNN			NNN NNN NNN NNN	14	
1960					NNN NNA AAA AAA	14	
1961					AAA AAA AAA AAA	14	
1962	A	B AAA AAA AAA			A A AAA AAA	14	
1963		ABA AAB AAA AAA			ABA AAB AAA AAA	14	
1964		AAN AAA AAA AAA			AAN AAA AAA AAA	15	MM MMM MMM MMM
1965		AAA AAA AAA AAA			AAA AAA AAA AAA	15	MMM MMM MMM MMM
1966		AAB AAA AAA AAA			AAB AAA AAA AAA	15	MMM M MMM MMM
1967		BAA AAA AAA ANN			BAA AAA AAA ANN	13	MMM MMM MMM M
1968		NNN NAA AAB A A			NNN NAA AAA AAA	13	MM MMM MMM
1969		AAB AAA AAA BAA			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970		AAA B AAA AAA	A		AAA AAA AAA AAA	14	MM MMM MMM MMM
1971		AAA AAA AAA AA			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972		AAA AAA AA AAA			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	
1977					AAA AAA AAA AAA	14	
1978					AAA AAA A	14	

HANKOW 30.70 114.30 19 432

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1941					B NBB	2	
1943					BBB BBB BBB BBB	8	
1944					BBB MMM MMB BMM	3	

HANOVER 43.70 287.80 HN J44

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1968	QQQ						
1969	QQQ QQQ QQQ QQQ						
1970	BBB QQQ QQQ QQQ						
1971	QQQ Q QQQ QQQ						
1972	QQQ QQQ Q						

HEISS IS 80.60 58.00 BT 280

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1938					M MMM MMM MMM	6	
1939					MMM MMM MMM MMM	6	
1940					MMM MMM MMM MMM	6	
1941					MMM MMM MM	6	
1942							
1943					MM MMM MMM MMM	6	
1944					MMM MMM MMM MM	4	
1945					MMM MMM MMM MM	4	
1946					MMM MMM MMM M M	2	
1957	WW WWW	AAA AAA	X		AAA AAA	12	
1958	WWW WWW WWW WWW	AAA AAA AAW WWW	X		AAA AAA AAA AAA	12	
1959	WWW WWW WWW WWW	WWW WWW NWW WAA	X		AAA AAA NAA AAA	12	
1960	WWW WWW WWW WWW	AAA AAA AAA AAB	X		AAA ABA AAA AAA	13	
1961	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1962	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1963	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1964	WWW WWW WNW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MMM MM MMM

HEISS IS (CONTINUED) 80.60 58.00 BT 280

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MMM M MMM
1966		AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	WWW WWW WW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MM MMM M M
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MM MMM MMM
1970	WWW WWW WWW WWW	AAA NAA AAA AAA	X		AAA NAA AAA AAA	13	MMM MM MMM MMM
1971	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1972	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AA AAA AAA AAA	14	MM MMM
1973	WWW WWW WWW WWW				AAA AAA AAA AAA	14	
1974	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1975	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1976	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1977	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	

HE HERMANUS -34.42 19.23 HE 13M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1971					BNA AAA	13	M M MMM
1972					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	13	
1977					AAB NNN NNN NNN	13	
1978					NNN NNN NNN NNN		
1979					NNN NNN NNN NNN		
1980					NNN NNN NNN NNN		
1981							

HIRAISO 36.4 140.6 20 536

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1936					B BBB BBB	1	
1937					BBB BBB BBB BBB	1	
1938					BBB BBB BBB BBB	1	
1940					NNN NBB BNN NNN	1	
1941					BNB BBB BNN NNN	1	
1942					NNB BBN NNB BBN	1	
1943					NNN NNN NBB BBB	6	
1944					BBN BBB BBB BBB	9	
1945					BBB BBB MN BBB	4	
1946					BBB MN	6	

HIRATSUKA 35.3 139.3 21 533

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1940					B	3	
1941					BBB BBB BBB BBB	3	
1942					BBB BBB BBB BBB	3	
1943					BBB BBB BBB BBB	3	
1944					BBB BBB BBB BBB	3	
1945					BBB BS	3	

HOBART -42.90 147.30 HO 54K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A	18	
1946					AAA AAA AAA AAA	18	
1947					AAA AAA AAA AAA	17	
1948					AAA AAA AAA AAA	15	
1949					AAA AAA AAA AAA	8	
1950					AAA AAA AAA AAA	9	
1951					AAA AAA AAA AAA	11	
1952					AAA AAA ABA AAA	11	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	10	T
1955					AAA AAA AAA AAA	10	
1956							
1957	WW	WWW WWW			AAA AAA	13	AAA AAA AAA AAA
1958	WWW WWW WWW W	WWW WWW WWW WWW			AAA AAA AAA AAA	13	AAA AAA AAA ATT
1959		WWW			AAB S	8	TTT
1961					AAA AAA AAA	3	TTT TTT TTT
1962	AAA				AAA AAA BBA BAB	3	TTT TTT TTT TTT
1963	AAA AAA				BBB AAA AAB AAA	3	TTT TTT TTT TTT
1964					AAA AAA AAA AAA	11	TTT TTT TTT TTT
1965					ABB AAA AAA AAA	11	TTT TTT TTT TTT
1966	A				AAA AAA AAA AAA	5	TTT TTT TTT TTT
1967					ABA AAA AAA AAA	5	TTT TTT TTT TTT
1968	B				AAA AAA ABA AAA	5	TTT TTT TTT TTT
1969	B				AAA AAA AAA AAA	5	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AAA AA	13	
1981					AAA AAA	13	

HOLLANDIA - 2.50 140.80 HL 50K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945	A AA				AB	10	
1957		W			A	10	
1958					AAA AAA AAA ABB	11	
1959					AAS	12	

HONG KONG 22.33 114.20 HK 423

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1969	AAA ABB BAA	WWW WWW WWW WWW			ABA ABB AAA BAB	9	MMM MMM MMM MMM
1970	A AAA AAA AAA	WWW WWW WWW WWN			AAA AAA AAA AAN	9	MMM MMM MMM MM
1971	AAA AAA ABB AAA				AA	11	MM
1972	AAA AAA AAA AAA						
1973	AAA AAA AAA AAA						
1974	AAA AAA AAA AAA						
1975	AAA AAA AAA AAA						
1976	AAA AAA AAA AAA	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1977	AAA AAA AAA AAA	WWW WWW			AAA AAA	11	
1978	ABA AAA AAA AAA						

HUANCAYO -12.0 284.70 HU 91K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1938					AAA AAA AAA AAA	6	
1939					AAA AAA AAA AAA	6	
1940					AAA AAA AAA AAA	6	
1941					AAA AAA AAA AAA	6	
1942					AAA AAA AAA AAA	6	
1943	B B				AAA AAA AAA AAA	6	
1944					AAA AAA AAA AAA	6	
1945					AAA AAA AAA AAA	6	
1946					AAA AAA AAA AAA	6	
1947	A AAA AAA				AAA AAA AAA AAA	6	
1948	AAA A B AA AAA				AAA AAA AAA AAA	9	
1949	AAA AAA AAA AAA				AAA AAA AAA AAA	9	
1950	AAA AAA AAA AAA				AAA AAA AAA AAA	13	
1951	AAA AAA AA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	17	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	17	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	17	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	17	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1957	AAA AAA AAA AAA	AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	T T TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1959	ABN BAA AAA AAA	ABN BBA AAA AAA	X	ABN BAA AAA AAA	ABN AAA AAA AAA	13	TT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TT
1963	AAA AAA AAA BAA	AAA AAA AAA BAA	X	AAA AAA AAA BAA	AAA AAA AAA BAA	13	AAA AAA AAA AAA
1964	AAA ABA AAA AAA	AAA ABA AAA AAA	X	AAA ABA AAA AAA	AAA AAA AAA AAA	10	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	10	TTT TTT TTT TTT
1966	AAA AAA ABB AAA	AAA AAA ABB AAA	X	AAA AAA ABB AAA	AAA AAA AAB AAA	10	MMM MMM MMM MM
1967	BBA ABA AAB AAA	BBA ABA AAB AAA	X	BBA ABA AAB AAA	ABA AAA AAA AAA	10	CCC CCC CCC CCC
1968	AAB ABA AAA ABA	AAB ABA AAA ABA	X	AAB ABA AAA ABA	AAA AAA AAA AAA	11	AAA AAA AAA AAA
1969	BAA BAA AAA AAA	BAA BAA AAA AAA	X	BAA BAA AAA AAA	AAA AAA AAA AAA	10	AAA AAA AAA AAA
1970	AAA AAB AAA AAA	AAA AAB AAA AAA	X	AAA AAB AAA AAA	AAA AAB AAA AAA	13	AAA AAA AAA AAA
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1974	AAA AAA AAA AA			AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1975	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1976	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1977	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	AAA AAA AAA AAA
1979	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA A A AAA	14	AAA AAA A A AA
1980	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA		14	C
1981	AAA AAA AA	AAA AAA AA		AAA AAA AA		15	

HYDERABAD 17.35 78.47 HY 317

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963					AA AAA AAA	5	
1964					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1967					AAA AAA AAA NBA	12	M MM
1968					AAA AAB AAA ABA	12	MMM MMM MMM MMM
1969					AAA AAB NNA AAA	12	MMM MMM M MMM
1970					AAA BNN NAA ABA	12	MMM M MM MMM
1971					BAA AAB AAN NAN	12	MMM MMM MM M
1972					ANN NNN NNN NNN	12	
1973					NNN NNN NNN NNN		
1974							

IBADAN 07.4 03.90 IB 007

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					A	4	
1952					ANN AAA ABB BAA	4	
1953					ANN ABN AMN NBA	4	
1954					AAA AAB AAA AAA	4	
1955					AAA AAA AAA AAA	4	
1956					AAA AAA AAA AAA	4	
1957	WWW WWW	WWW WWW			AAA AAA AAA AAA	13	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959	WWW	W W			AAA AAA AAA AAA	7	
1960					AAA AAA AAA AAA	10	
1961					AAA AAA AAA AAA	10	
1962	A				AAA AAA AAA AAA	10	
1963	B A B				AAA AAA AAA AAA	10	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MM MMM MMM
1968					AAN AAA AAA AAA	12	MM MMM MMM MMM
1969					AAA BAA AAA AAA	12	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAN	12	MMM MMM MMM MM
1972					A A A A ABA AAB	12	M M M M MMM MMM
1973					AAA A BB AA	12	M MM MM
1974					AAA A A B A AB	12	

ILO -17.40 288.80 IL J1P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959	BB AAS	BB AAS	X	BB AAS	BB AAS	13	TT TTS

REPLACED CHICLAYO

INVERNESS 57.40 355.80 IN 056

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					BAA	4	
1952					AAA AAA AAA AAA	4	
1953					AAA AAA AAA AAA	4	
1954					AAA AAA AAA AAA	4	
1955					AAA AAA AAA AAA	4	
1956					AAA AAA AAA AAA	4	
1957	W WWW WWW	WWW WWW			AAA AAA AAA AAA	8	
1958	WBW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	8	
1959	W				AAA AAA AAA AAA	8	
1960					AAA AAA AAA AAA	8	
1961					AAA AAA AAA AAA	9	
1962					AAA AAA AAA AAA	9	
1963					AAA AAA S	9	

REPLACED FRASERBURGH

IRKUTSK 52.5 104.0 IR 352

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					M	7	
1957					M M MM AAA NNN	2	
1958	W W WWW WW	NNB NNA AAA AAA	X		NNA NNA AAA NAA	14	
1959	A	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	

IRKUTSK (CONTINUED) 52.5 104.0 IR 352

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	MM	MM	MM	MMM
1965	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	MMM	MMM	MM	MMM
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MM
1968	WWW	WWW	WWW	WBB	AAA	BAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MM	MM	M M	M M
1969	WBW	WWB	BBB	WBW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970	BB	BWB	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971	BBA	BBB	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1972	WWW	WWW	WBW	WBW	A	AA	A	AAA	X					MMA	AAM	MMA	AAA	13	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM		
1975	WWW	WWW	WW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1977	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1978	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1979	WWW	WWW	W W	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1980	WWW	WWW	WW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1981	WWW	W			AAA	A			X					AAA	A			14				

JAMAICA 18.00 283.20 JA 918

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1962			B	AAA			B	BBA	X													
1963	AAA	AAA	AAA	ABB	AMA	AAA	AAM	BBB	X													
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X													
1968	AAA	AAA	AAA	ABN	AAA	AAA	AAA	ABN	X													
1969	NNN	NNN	NNN	NNN	NNN	NNN	NNN	NNN														
1970	NNN	NAA	AMA	AAA	NNN	NAA	AAA	AAA	X													
1971	AAA				AAA	AAA	NNN	NNN	X													
1972					NNN	NNN	AAA	AAA														
1973					AA	AA	A	A A														
1974					AAA	AAA	S															

JICAMARCA -11.95 283.14 JI 91J

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1962		A																				
1963	BBB	BBB	BBB	BB																		
1964	AAA	AAA	BBB	AAA																		
1965	AAB	ABB	ABA	AAA																		
1966	BBB	BB		B																		
1967			B																			
1968		BB																				

JOHANNESBURG -26.10 28.10 JO 120

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1946																AA	AAA	8				
1947														AAA	AAA	AAA	AAA	9				
1948														AAA	AAA	AAA	AAA	9				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	10				
1951														AAA	AAA	AAA	AAA	10				

JOHANNESBURG (CONTINUED) -26.10 28.10 JO 120

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AAA AAA AAA AAA	10	
1953					AAA AAA AAA AAA	10	
1954					AAA AAA AAA AAA	10	
1955					AAA AAA AAA AAA	10	
1956					AAA AAA AAA AAA	10	
1957		WWW WWW	X		AAA AAA	13	
1958		WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1959		WWW W WW WWW	X		ABA AAA AAA AAA	13	
1960					AAA AAA AAA AAA	2	
1961					AAA AAA AAA AAA	13	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	10	
1964	B BB	WWW WWW W			AAA AAA A	10	MMM MMM M
1965	BB B						
1966	BBB						
1967					AAA AAA AAA AAA	12	M
1968					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1969	B B BB	WWW WWW WWW WWW			AAA AAA AAB AAA	13	MMM MMM MMM MMM
1970		WWW WWW WWW WWW			AAA AAB AAA AAA	13	MMM MMM MMM MMM
1971					AAA AAN ANB AAA	13	MMM MM M M MMM
1972					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1975					AAA AAB AAA AAA	13	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	13	
1977					AAA AAA AAA AAA	13	
1978					AAA AAA AAA AAA	13	
1979					AAA AAA AAA AAA	13	
1980					AAA A A A AAA	14	
1981					AA AA AAA	14	

JULIACA -15.50 289.80 JU J1N

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959	B ABS	B ABS	X	B ABS	B ABS	13	T TTS

JULIUSRUH/RU 54.60 13.40 JR 055

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WWW			A	6	
1958		WW WWW WWW WWW			AAA ABA AAA AAA	9	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	9	
1960					AAA AAA AAA AAA	9	
1961		NWW WWW WWW WWW			BAA AAA AAA AAA	9	
1962		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1963		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965		W WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA AAA	10	MMM MMM MMM MMM
1967		WWW WWW WWB BWW			AAA AAA AAA AAA	10	
1968		WWW WNW WWW WWW			AAA ABA AAA AAA	10	MMM MMM MMM MMM
1969		WWW WWW WWN WWW			AAA AAA AAB AAA	10	MMM MMM MMM MMM
1970		WWW WWW WWW WWW			AAA AAA AAA AAA	10	MMM MMM MMM MMM
1971		WWW WWW WWW WWW			AAA AAA AAA AAA	10	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1976					AAA AAA AAA AA	4	
1977					AAA AAA AAA AAA	4	
1978					AAA AAA AAA AAA	4	
1979					AAA AAA AAA AA	4	
1980					AAA AAA AAA AAA	4	

JULIUSRUH/RU (CONTINUED) 54.60 13.40 JR 055

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1981					AAA AAA AAA	4	

KALININGRAD 54.70 20.62 KL 154

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964	Q QQQ QQQ QQQ	QQ QQQ QQQ QQQ			QQ QQQ QQQ QQQ		
1965	QQQ QQQ Q QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1966	QQQ QQ Q QQ	QQQ QQ QQ QQQ			QQQ QQ QQ QQQ		
1967	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1968	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1969	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1970	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1971	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1972	QQQ QQQ BBQ QQQ	QQQ QQQ BBQ QQQ			QQQ QQQ BBQ QQQ	14	
1973	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1974	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1975	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1976	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1977	QQQ QQQ	QQQ QQQ Q			QQQ QQQ Q		

KAMINOGE 35.6 139.6 22 532

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					BBB BBB BBS	9	

KARAGANDA 49.82 73.08 KR 250

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964	QQ QQQ	QQ QQQ			AA AAA	14	MM MM
1965	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			AAA AAA AAA AAA	14	M M MMM MMM MMM
1966	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			AAA AAA AAA AAA	14	M M MMM MMM MMM
1967	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		MMM MMM MMM MMM
1968	QQQ QQQ Q QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		MMM MMM MMM MMM
1969	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			AAA AAA AAA AAA	14	MMM MMM MMM
1972	QQQ QQQ QQQ QQQ	QQQ QQQ BBQ QQQ	X		AAA AAA AAN AAA	14	MM MMM MM MMM
1973	QQQ QQQ QQQ QQQ	QQQ QQQ Q Q QQQ			QQQ QQQ QQQ QQQ		
1974	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1975	QQQ QQQ QQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1976	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1977	QQQ Q	QQQ Q			QQQ Q		

KERGUELEN -49.35 70.24 KG 24R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1953					AA AAA AAA AAA		
1954					AAA AAA AAA AAA		
1955					AAN NNN NNN NNN		
1956					AAA AAA AAA ANN	12	
1957					AAA AAA AAA AAA	12	
1958					AAA AAA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAA AAA AAA BNB	12	
1961					AAA AAA AAA AAA	12	

KERGUELEN (CONTINUED) -49.35 70.24 KG 24R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					BAA AAB ABN NNN	12	MMM MMM MM
1965					NNN AAA AAA AAA	12	TTT TTT TTT
1966		WWW WWW WWW WWW			BAA AAA AAA AAA	12	TTT TTT TTT TTT
1967		WWW WWW WWW WWW			AAA AAA AAA AAA	12	TTT TTT TTT TTT
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	12	TTT TTT TTT TTT
1969					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	AAA AAA AAA AAA
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA AAA AAA AAA	14	
1979					AAA AAA AAA AAA	14	
1980					AAA AAA A	14	

KERMADEC -29.20 182.10 KC 62R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					M MMM MMM	8	
1944					MMM MAA AAA AAA	10	
1945					AAM MMA AAA AAA	16	
1946					AAA AAA AAA AAA	13	
1947					A	13	
1964					BA AAA AAA ABB	2	
1965					AAA AAA AAA AAA	2	
1966					AAA AAA AAA AAA	2	
1967					BNN NNN AAA AAA	2	
1968					BAA AAB ABA BBB	3	MM MMM M
1969					BAB NNN NNN NNN	3	MMM
1970					NBA ABB AAA AAA	3	MM MMM MMM MMM
1971					ABB BBA AAA BBB	3	MMM MMM MMM MMM
1972					AAB AAA AAB S	3	MMM MMM MMM S

KHABAROVSK 48.50 135.10 KB 548

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959		QQ QQQ			QQ QQQ		
1960		QQQ QQQ QQN QQQ			QQQ QQQ QQN QQQ		
1961		AAA AAA ABA AAA	X		AAA AAA ABA AAA	14	
1962		AAA AAA ABB AAA	X		AAA AAA ABB AAB	14	
1963		BBA ABA AAA AAA	X		BBA ABA AAA AAA	14	
1964	W W WW W WWW	AAA AAA ABA AAA	X		AAA AAA ABA AAA	14	MMM MMM MMM MMM
1965	WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	ABA ABA AAA AAA	X		ABA ABA AAA AAA	14	MMM MMM MMM MMM
1967	WWW WW WWW	AAA AAA NNN NNA	X		AAA AAA NNN NNA	14	MMM MMM M
1968	W WW WWW WWW	NBN NAA AAA AAA	X		NBN NAA AAA AAA	14	MMM MMM MMM MMM
1969	WWW WWW WW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	WW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	M MMM MMM MMM
1971	WW WWW WWW W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972	WWW W WB WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974	WWW WW W WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	WWW W WWW WWW	AAA AAA AAA AA	X		AAA AAA AAA AA	14	MMM MMM MMM
1976	WW W	A A	X		A A	14	
1977	WWW WWW WWW WW	A AA AAA	X		AAA AAM MMM AAA	14	
1978	WW WW W W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1979	W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA	X		AAA AAA A AA	13	

KHARTOUM 15.55 32.58 23 115

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					A AA A A ABA	4	
1953					BAB MM MAA BAB	8	
1954					MBS	8	

KIEV 50.72 30.30 KV 151

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965		AAA AAB AAA AAA	X		AAA AAB AAA AAA	14	MMM MMM MMM MMM
1966		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1967		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1968		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1969		AAA AAA AAN NAA	X		AAA AAA AAN NAA	14	MMM MMM MM MM
1970		NNN AAA AAA AAA	X		NNN AAA AAA AAA	14	MMM MMM MMM
1971		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	M MMM MMM MMM
1972		AAA AAA AAA AA	X		AAA AAA AAA AA	14	MMM MMM MMM MM

KINSHASA BINZA - 4.50 15.20 LB 10M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AA AAA AAA AAA	21	
1953					AAA AAA AAA AAA	18	
1954					AAA AAA AAA AAA	20	
1955					AAA AAA AAA AAA	21	
1956							
1957					AAA AAA AAA AAA	20	
1958					AAA AAA AAA AAA	20	
1959					AAA AAA AAA AAA	20	
1960					AAA AAA AAA AAA	20	
1961					AAA AAA AAA AAA	20	
1962					AAA ANA ANN ANN	20	
1963					AAA AAN NNN NAA	20	
1964					BAN NNA AAB AAA	20	MM M MMM MMM
1965					ABB BBA NNA AAA	20	MMM MMM M MMM
1966					AAA AAA NAB NAA	20	MMM MMM MM MM
1967					AAA BNA AAA ABN	14	MMM M M MMM MM
1968					NBB AAA AAA AAA	9	MM MMM M M MMM
1969					ABA AAB AAA AAA	9	MMM MMM MMM MMM
1970					AAA AAA AA	11	MMM MMM MM

KIRUNA 67.84 20.42 KI 167

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949					A AAA AAA AAA	10	
1950					AAA AAA AAA AAA	10	
1951					AAA AAA AAA AAA	10	
1952					AAA AAA AAA AAA	11	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA ANA AAA	11	
1955					AAN NNA AAA ANN	11	
1956					NAA AAA AAA AAA	10	
1957		WWW WWW			AAA AAA AAA AAA	11	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964	BAA	AAA AAA AAA AAA			AAA AAA AAA AAA	13	MMM MMM MMM MMM

KIRUNA (CONTINUED) 67.84 20.42 KI 167

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1965	AAB	AAA AAA AAA AAA			AAA AAA AAA AAA	13	AAA AAA AAT TTT
1966		A			AAA AAA AAA AAA	13	TTT TTT TTM MMM
1967					AAA AAA AAA AAA	13	MM
1968					AAA AAA AAA AAA	13	MMM MMM MMM M
1969					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	18	
1977					AAA AAA AAA AAA	18	
1978					AAA AAA AAA AAA	18	
1979					AAA AAA AAA AAA	18	
1980					AAA AAA AAA AAA	18	
1981					AAA AAA AAA	18	

KJELLER 60.0 11.10 OS 059

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945					A AAA AAA	5	
1946					A A A	4	
1948					AA	7	
1949					AAA AAA AAA AAA	8	
1950					AAA AAA AAA AAA	8	
1951					AAA AAA AAA AAA	9	
1952					AAA AAA AAA AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA AAA AAA	9	
1956					AAA AAA AAA AAA	9	
1957		WWW WWW			AAA AAA AAA AAA	11	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959		WS			AS	11	

KOCHEL 47.7 11.4 24 064

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1945					A	3	

KODAIKANAL 10.20 77.50 KO 310

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1952					AAA AAB	1	
1953					AAA AAA AAA AAA	1	
1954					AAA AAA AAA AAA	1	
1955					AAA AAA AAA AAA	8	
1956					AAA AAA AAA AAA	8	
1957		WWW WWW			AAA AA AAA AAA	11	
1958	B	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960					AAA AAA AAA AAA	11	
1961					AAA AAA AAA AAA	11	
1962					AAA AAA AAA AAA	11	
1963					AAA AAA AAA AAA	11	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965		WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	9	MMM MMM MMM MMM

KODAIKANAL (CONTINUED) 10.20 77.50 KO 310

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1967	B				AAA AAA AAA AAA	11	MMM M
1968					AAA AAA AAA AAA	9	MMM MMM MMM MM
1969					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1971					ABA AAA AAA AAA	9	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1973					AAA AAA AAA AAB	11	MMM MMM MMM MMM
1974					AAA AMA BAA AA	11	MMM MMM
1975					AAA AA AAA AAA	11	
1976					AAA AAA AAA AAA	11	
1977					AAA AAA AAA AAA	11	
1978					AAA AAA AAA AAB	11	
1979					AAA AA	11	
1980					A	11	

KWAJALEIN 09.05 167.20 26 609

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					MMM	7	

LANCHOW 36.1 103.8 27 336

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					A	9	
1947					AAA AAA AAA AAA	12	
1948					AAA AAA AAA AAA	12	
1949					AAA AAA S	12	

LANNION 48.45 356.73 LN 047

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	AAA AAA AAA AAA
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA AAA AAA AAA	14	
1979					AAA AAA AAA AAA	14	
1980					AAA AAA AAA A	14	

REPLACED PARIS-SACLAY

LA PAZ -16.50 291.90 LP J10

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	BAA	BBA	X	BBA	AAA	13	TTT
1958	ABA ABA AAA AAB	ABA ABA AAA AAB	X	ABA ABA AAA AAB	AAA ABA AAA AAB	13	TTT TTT TTT TTT
1959	NNN NNN NNN NNB	NNN NNN NNN NNB	X	NNN NNN NNN NNB	NNN NNN NNN NNB	13	
1960	AAA BBA AAA AAA	AAA BBA AAA AAA	X	AAA BBA AAA AAA	AAA NBA AAA AAA	13	TTT TTT TTT TTT
1961	BAB NNN UNN NNN	BAB NNN UNN NNN	X	BAB NNN UNN NNN	NAA NNN UNN NNN	13	T T
1962	NNN NNN NNN BBB	NNN NNN NNN BBB	X	NNN NNN NNN BBB	NNN NNN NNN AAB	13	TT
1963	UAA AAA BBN NNN	BAB AAA BBN NNN	X	BAB AAA BBN NNN	BAA AAA AAN NNN	13	AAA AAA AA
1964	NAA BAM BAA ABB	NAB BBB BBA BBB	X	NAA BBB BUU BBB	NAA AAN AUU AAB	13	AA AAA AAA AAA
1965	AAA BBA AAB	AAA BBA AAB		AAA BBA UAB	AAA AAA UA	13	TTT TTT TT
1966	A	BB		BB	A	12	

LA PAZ (CONTINUED) -16.50 291.90 LP J10

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1967					AAA AAA	10	MMM MMM
1968					AAA	10	
1969							
1970	B						

OPERATED AT JULIACA MARCH-NOVEMBER 1959

LA QUIACA -22.10 294.40 LQ J2K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					B AAB	12	
1959					S		

LENINGRAD 59.95 30.70 LD 160

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					MMM MMM MMM MMM	4	
1946					MMM M MMM M	6	
1947					MM	2	
1956					MM M	7	
1957		B A	X		M M MMM AAA AAA	13	
1958	WWW WWN NWW WWW	AAA AAN NAA NNN	X		AAA AAN NAA NNN	13	
1959	WWW WWW WWW WWW	NNN AAA ABA AAA	X		NNN AAA AAA AAA	14	
1960	WWW WW WW W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1961	W W WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1962	W WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1963	WWW WWW WWW W W	AAA AAA AAA ANA	X		AAA AAA AAA ANA	14	
1964	WWW WW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965	WWW WWW W W WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	PPP PPP PP PPP	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968	W WW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969	WWW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	P PP WPP PPW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	PPP PPP PPP PPP	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972	PPW PPW PPP WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973	WWP PPP PPP PPP	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974	WWW WWW WWW WWW	AAA A AAA AAA	X		AAA AMM AAA AAA	14	MMM MMM MMM MMM
1975	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM
1976	WWW W W WWW	AAA A AAA B	X		AAA A AAA B	14	
1977	WWW WWW WW WWW	AAA AAA AAA AA	X		AAA AAA AAA AA	14	
1978	WWW WWW WWW W	A A AAA AAA AAA	X		AAA AAA AAA AAA	14	
1979	WWW W W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1981		AA AAA	X		AA AAA	14	

LEYTE 11.0 125.0 28 411

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945	A AAA				A AAA AAA	8	
1946	AAA AAA AAA AAA				AAA AAA AAA AAA	6	
1947	AAA AAA AAA AAA				A AA	6	
1948	AAA AAA AAS				AAA AAA AAS	5	

LINDAU 51.60 10.10 LI 050

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1947					M		
1948					M M MMM MM MMM		
1949					AAA AAA AAA AAA	10	
1950					AAA AAA AAA AAA	11	
1951					AAA AAA AAA AAA	11	
1952					AAA AAA AAA AAA	11	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	11	
1955					AAA AAA AAA AAA	11	
1956					AAA AAA AAA AAA	11	
1957	WWW WWW	AAA AAA			AAA AAA AAA AAA	12	
1958	WWW WWW WWW WWW	AAA AAW WWW WWW			AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1960		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1961		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1962		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1963		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM M
1969		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MM MMM MMM MMM
1970		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1973		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1975		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1976		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1977		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1978		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1979		WWW WWW S			AAA AAA S	12	S

LITTLE AMERICA -78.20 197.80 LA 77Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	S	S		S	S		S

LONGYEARBYEN 78.20 15.70 LG 178

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					A	9	
1957		WWW WWW			AAA AAA	11	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959		WWW WWW WWS			AAA AAA ABS	11	

LOSHAN 29.5 103.7 29 329

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					AAA AS	10	

LULEA 65.6 22.10 LU 165

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AAA AA	7	
1953					AAA AAA AAA AAA	8	
1954					AAA AAA A AAA	8	
1955					AAA AAA AAA AAA	11	
1956					AAA A A AAA AAA	8	
1957	BA				AAA AAA AAA AAA	10	
1958	ABA AAA BAA AAA	W WW			AAA AAA AAA BAA	10	
1959	AAA AAA AAA AAA	WWW WWW WWW WWW			AAA AAA AAA AAA	10	
1960	B				AAA AAA AAA AAA	12	
1961	AAA AA				AAA AAA AAA AAA	12	
1962	AAA AAA BA AAA	WWW WWW WWW			AAA AAA AAA AAA	12	
1963	AAA B BA				AAA AAA AAA AAA	12	
1964		W WWW WW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965		WW W W WWW N W			AAA AAA AAA NAA	12	MMM MMM MMM MM
1966	A AAA AAA AAA	WW W WWW W			AAA BAA AAA AA	12	MMM MMM MMM MM
1967							
1968					AA	12	MM
1969					S		S

LWIRO -02.30 28.80 LW 10K

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1953					AA AAA	22	
1954					AAA AAA AAA AAA	20	
1955					AAA AAA AAA AAA	20	
1956					AAA AAA AAA AAA	20	
1957		WWW WWW			AAA AAA AAA ANA	21	
1958		WWN WWW WWW WWW			AAN BAA AAA AAA	21	
1959					AAA AAA AAA AAA	21	
1960					AAA AAA AAA AAA	21	
1961					BNN NNN NNN NAA	21	
1962					ANN ABN NNN NNN	21	
1963					NNN NNA AAA AAA	21	
1964					AAA AAA AAA AAA	21	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	21	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	21	MMM MMM MMM MMM
1967					AAA AAA S	21	S

LYCKSELE 64.62 18.76 LY 164

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WWW			AAA AAA AAA AAA	10	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	10	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960		W			AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962		WW			AAA AAA AAA AAA	13	
1963		WWW WWW WWW WWW			AAA AAA AAA AAA	13	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	13	AAA AAA AAM MMM
1965		WWW WWW WWW WWW			AAA AAA AAA AAA	14	AAA AAA AAA AAA
1966					AAA AAA AAA AAA	14	AAA AAA AAM MMM
1967					AAA AAA AAA AAA	14	MM M
1968					AAA AAA AAA AAA	14	MMM MMM MMM M
1969					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	19	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	19	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	19	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	18	
1977					AAA AAA AAA AAA	18	
1978					AAA AAA AAA AAA	18	

LYCKSELE (CONTINUED) 64.62 18.76 LY 164

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1979					AAA AAA AAA AAA	18	
1980					AAA AAA AAA AAA	18	
1981					AAA AAA AAA	18	

MACAU 22.20 113.60 MC 422

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958		WW WWW WWW			BA AAA AAA	13	
1959					AAA AAA AAA AAA	13	
1960					AAA NNN NNN NNN	13	
1961					A BA	13	

MACQUARIE IS -54.50 159.0 MQ 55M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1950					A AAA AAA	11	
1951					AAA AAA AAA AAA	11	
1952					AAA NNN NBB AAA	11	
1953					AAA BBA ABN AAA	11	
1954					BAA AAA AAA AAA	10	
1955					NAA BAA BBB BBA	10	
1956					AAA AAA AAA AAA	7	
1957		AA AAB			AAB BAB AAA AAA	13	
1958		BNB BBB BBN BBS			BNB BBB BBN BBS	13	

MADRAS 13.10 80.30 MD 313

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					MMM MMM	2	
1945					MMM MMM MMA AAA	2	
1946					AAA AAA AAA AAA	2	
1947					AAA AAA AAA AAA	2	
1948					AAA AAA AAA AAA	2	
1949					AAA AAA AAA AAA	2	
1950					AAA AAA AAA AAA	2	
1951					AAA AAA AAA AAA	2	
1952					AAA AAA AAA AAA	2	
1953					AAA AAA AAA AAA	2	
1954					AAA AAA AAM AAA	2	
1955					AAA AAA AAA AAA	3	
1956					MMM MMM MMM MMM	3	
1957		WWW WWW			AAA AAN AAA AAA	3	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	5	
1959		WWW WWW WWW WW			AAA AAA AAA AAA	5	
1960					AAA AAA ABB BBB	5	
1961					ABA BAA AAA AAB	5	
1962					ABA BAA BAA AAA	5	
1963					AAA AAA AAB BBB	5	
1964					AAN BBA NNN NNN	5	MM MMM
1965					NNN NNN NNN NNN		
1966					NNN NBB BBB BNN	3	MM MMM M

MAKASSAR - 5.2 119.5 30 40N

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					BBB BBB BBB BS	5	

MANILA 14.6 121.0 MN 414

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					M MMM MMM MMS	5	
1946							
1947	AAA AAA AAA AAA				AA S	12	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	11	MM M
1968	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	MMM MMM MMM M
1969	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	MMM MMM MMM MMM
1970	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	MMM MMM MMM MMM
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	MMM MMM MMM MMM
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	MMM MMM MMM MMM
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	18	MMM MMM MMM MMM
1974	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	MMM MMM MMM MMM
1976	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	
1977	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	
1978	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	
1979	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	
1980	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	18	
1981	AAA AAA A	AAA AAA AAA		AAA AAA AAA	AAA AAA AA	18	

REPLACED BAGUIO

MARION IS -46.87 37.85 MR 140

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957					AAB BBA	12	
1958					BBB NBS	6	

MAUI 20.80 203.50 MA 720

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944	A AAA ABA AAA				A AAA AAA AAA	14	
1945	AAA AAA AAA AAA				AAA AAA AAA AAA	10	
1946	AAA AAA BBA AA				AAA AAA AAA AAA	9	
1947	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1948	AAA AAA ABA AAA				AAA AAA AAA AAA	12	
1949	ABA AAA AAA AAA				AAA AAA AAA AAA	12	
1950	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA	BBB BWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TT
1958	AAA AAA AAA AAA	WWW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	WBW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1960	AAA AAA AAA AAA	WWW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	T T TTT TTT TTT
1961	AAA AAA AAA AAA	WWW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT T T TTT TTT
1962	AAA AAA AAA AAA	WWW WWA AWW AWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1963	AAA AAA AAA AAA	WWW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1964	AAA AAA AAA AAA	WWW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA

MAUI (CONTINUED) 20.80 203.50 MA 720

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1965	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	MMM	MMM	MMM	MMM
1967	AAA	AAA	AAA	AAA	WWW	WWW	WWB	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	CCC	CCC	CCC	CCC
1968	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	CCC	CCC	CCC	CCC
1969	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	15	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA	WWW	WW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AA	A	A	17	AAA	AAC	ACC	CAC
1978	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	A	AA
1980	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA	A				17	CAC	C		
1981	AAA	AAA	AAA	AAA	WWW	WWW	WWW	WWW		AAA	AAA	AAA	AAA					17				

MAWSON -67.60 62.90 MW 26P

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1958					WN	NNN	NNN	NNN						BN	NNN	NNN	NNN	13				
1959					NNN	NNN	NNN	NNN						NNN	BBB	BBB	BBB	3		TTT	TTT	TTT
1960					NAN	NNA	AAA	AAA						BBN	NNA	AAA	AAA	11	TT	T	TTT	TTT
1961					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1962		B			ANA	AAA	ABA	BAB						ABA	AAA	AAA	BAA	11	TTT	TTT	TTT	TTT
1963					BNN	NNN	NNN	NNN						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1964					NNA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1965					AWW	WWW	WWN	WBW						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1966				A	NAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1967					AAA	AAA	AAA	AAB						AAA	AAA	AAA	AAB	11	TTT	TTT	TTT	TTT
1968														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1972														AAA	BAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1973														AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1974														AAA	AAA	AAA	AAA	12	AMM	MMM	MMM	MMM
1975														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976														AAA	AA	AAA	AAA	12				
1977														AAA	AAA	BAA	AAA	12				
1978														AAA	AAA	AAA	AAA	12				
1979														AA	AAA	AAA	AAA	13				
1980														AAA	AAA	AAA	AAA	13				
1981														A	AAA			13				

MAYNARD 42.43 288.55 MY J43

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1970																	BAA	17				MMM
1971														AAA	AAA	AAA	AAA	17	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	17	MMM	MMM	MMM	MMM
1973														AAA	AAA	AAA	AAA	17	MMM	MMM	MMM	MMM
1974														AAA	AAA			17				
1975																S					S	

REPLACED BILLERICA

MEANOOK 54.60 246.70 ME 855

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	B		B	A	10	
1958	AAA AAA AAA AAA	BAA AAA AAA AAA		BAA AAA AAA AAA	AAA AAA AAA AAA	8	
1959	WS	AS		AS	AS	7	

MEGURO 35.6 139.7 31 534

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1934					B NBN BBB	1	
1935					B BBB BBB	1	
1936					BBB B BB BBB	1	
1937					BBB BBB BBB BBB	1	
1938					BBB BBB BBB BBB	1	
1939					BBB BBB BBB BBB	1	
1940					BBB BBB BBB BBS	1	

MEXICO CITY 19.4 260.3 MX 919

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	A AA AA AAA			BBB NBN BBB	BB	13	
1959	AAA AAA AAA AAA	AA BAA AAA AAA	X	AAA BAA AAA AAA	AAA AAA AAA AAA	13	
1960	AAA AAA AAA AAA	ABA AAA AAA AAB	X	ABA AAA AAA AAB	AAA AAA AAA AAA	13	
1961	A A AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	A A AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	AAA AAA AAA AAA	AAA AA AAA AAA	X	AAA AA AAA AAA	AAA AAA AAA AAA	13	MM MMM MMM MMM
1968	AAA AAA AAA AAA	AAA ABA BAA AAA	X	AAA ABA BAA AAA	AAA ABA AAA AAA	13	MMM MMM MMM M
1969	AAA AAA AAA AAA	AAA AAA BAA AAA	X	AAA AAA BAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	AAA AAA AAA AAA	AAA ABA BAA AAA	X	AAA ABA BAA AAA	AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	4	MMM MMM MMM MMM
1972	AAA AAA AAA AAA	BAA AAA AAA AAA	X	BAA AAA AAA AAA	BAA AAA AAA AAA	4	MMM MMM MMM MMM
1973	AAA AAA AAA AAA	AAA ABB BBB BBB	X	AAA ABB BBB BBB	AAA AAA AAA AAA	4	MMM MMM MMM MMM
1974	AAA AAA AAA AAA	BBB BBB BBB BBB		BBB BBB BBB BBB	AAA AAA AAA AAA	4	MMM MMM MMM MM
1975	AAA AAA AAA AAA	BBB AAA AAA ABA		BBB AAA AAA ABA	AAB AAA AAA ABA	4	MM MMM MMM MMM
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	BBA ABA AAA AAA	14	
1977	AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1978		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1979		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1981		AA		AA	AA	14	

MIEDZESZYN 52.20 21.20 MZ 152

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	WWW WWW	WWW WWW			A AA B	5	
1959	WWW W WWW WWW	WWW WWW WWW WWW			AAB ANA AAA AAB	5	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	13	
1962					AAA AAA AAA AAA	13	
1963					AAA AAA AAA AAA	13	
1964					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	13	MM MM
1968					AAA AAA AAA AAA	13	MMM MMM MM MMM
1969					AAA AAA AAA AAA	13	MMM M

MIEDZESZYN (CONTINUED) 52.20 21.20 MZ 152

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	13	
1977					AAA AAA AAA AAA	13	
1978					AAA AAA AAA AAA	13	
1979					AAA AAA AAA AAA	13	
1980					BAA AAB NAA AAA	13	
1981					AAA A	13	

MILLSTONE HILL 42.60 288.50 MH J45

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963	BAA AAA AAA						
1964	AAA AAA AAA AAA						
1965	AAA AAA AAA AAA						
1966	NAA AAA AAA AAB						
1967	AAA AAA AAA BBB						
1968	BAA ABA AAA AAB						
1969	AAA BBA AAA ABA						
1970	AAA AAA AAA AAA						
1971	AAA AAA AAA AAA						
1972	AAA AAA AAA AAA						
1973	AAA AAB AAA AAA						
1974	AAA AAA BAA AAA						
1975	AAA ANN AAA AAA						
1976	AAA AAA AAA AAA						
1977	AAA AAA BAA BAA						
1978	AAA BAA AAA AAA						
1979	AAA AAA						

MIRNY -66.50 93.00 MI 360

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	W WWW WWW	W WWW WWW	X		AA AAA AAA AAA	12	
1958	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1959	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1961	WWW WWW WW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1962	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1963	WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	M M MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	M M MMM MMM MMM
1966	WW W W WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1973	S	S			S		S

MOSCOW 55.50 37.30 MO 155

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					M MMM MMM MMM	1	
1945					MMM MMM MMM MMM	5	
1946					AAA AAA AAA AMA	8	

MOSCOW (CONTINUED) 55.50 37.30 MO 155

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1947														AA				1				
1956														AAA	AAA	AAA	AAA	14				
1957			WWW	WWW			AAA	AAA						MMM	MMM	AAA	AAA	14				
1958	WWB	WWW	BWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	W W	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	BWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AA		14				
1964	WWA	AAA	AAA	AA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	BBW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1968	WWW	WWW	BWW	BBB	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	BBB	BBB	BBB	BB	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	BBB	BWB	BBB	BBB	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	BBB	BBB	BWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WBW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWB	WBB	BBB	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974	WWW	BWW	BBW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	A	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	M
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	A	X					AAA	AAA	AAA	AAA	14				
1977	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AA	X					AAA	AAA	AA	AA	14				
1978	WWW	WWW	WW	W	AAA	AAA	AAA	AAA	X					AA	AAA	AAA	A	14				
1979					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1980					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1981					AAA	A								AAA	A	A	A	13				

MUNDARING -31.99 116.31 MU 43K

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1959															AAA	AAA	AAA	8		TTT	TTT	TTT
1960														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1961														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1962		B		A										AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1963	B	A	B											AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1964														AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1965		A												AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966		B		A										AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1967		B												AAA	AAA	AAA	AAA	5	TTT	TTT	AAA	AAA
1968														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	ABA	7	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1971														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1972														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1973														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1974														AAA	AAA	AAA	AAA	6	TTT	TTT	TTT	TTT
1975														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	12				
1977														AAA	AAA	AAA	AAA	12				
1978														AAA	AAA	AAA	AAA	12				
1979														AAA	AAA	AAA	AAA	13				
1980														AAA	AAA	AAA	AAA	13				
1981														A				13				

REPLACED WATHEROO

MURMANSK 69.0 33.0 MM 168

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1956														A	AAA	A		3				
1957			WWW	WWW			AAA	AAA	X					MMM	M	AAA	AAA	13				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				

MURMANSK (CONTINUED) 69.0 33.0 MM 168

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959	WWW WWW WWW WWW	AAA AAA ABA AAA	X		AAA AAA ABA AAA	14	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	
1961	NWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	
1962	WWW WWW WWW WWW	AAA AA AAA AAA	X		AAA AAA AAA AAA	15	
1963	WWW WWW WWW WWN	AAA AAA AAA AAN	X		AAA AAA AAA AAN	15	
1964	WWW WWW WWW WWW	AAA AA AAB AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1965	WWW B W WWW BWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1966	BWB BWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1967	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1968	WWW WWW WWW BBB	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1969	WBB BBW BWB BBW	AAA AAA ANA AAA	X		AAA AAA ANA AAA	15	MMM MMM MMM M M
1970	WWW WWW BBW BBW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1971	WWW BBW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1972	WWW WWW WWW WW	AAA AAA AAA AA	X		AAA AAA AAA AA	15	MMM MMM MM M
1973	W BWW	A A AA AAA	X		AAA A AA AAA	15	M M
1974	WW BA	A AAA AAA AAA	X		A AAA AAA AAA	15	MM
1975	WW W	AAA A	X		AAA AAA	15	MMM M
1977		A A AA	X		AAA AA	15	

NAIROBI -01.28 36.83 NR 10J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AA AA	10	
1953					AA AA	10	
1954					AAA A A	10	
1955					A A AA AAA AAA	10	
1956					AAA A	10	
1957					AA AA	10	
1964	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	14	
1965	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA A A AAA AAA	14	
1966					AAA AA AAA AAA	14	
1967					AAA AAA AAA AAA	14	
1968					AAA AAA A	14	

NANKING 32.1 119.0 32 432

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1947					A AAA	12	
1948					AAA AAA AAA AAA	12	
1949					S		

NARSSARSSUAQ 61.20 314.60 NQ J61

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1950	U UUA			A	A	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	A A A	14	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	14	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	9	
1957	AAA ABN NBA AAA	AAA ABN NBA BAA	X	AAA AAN NBA AAA	NBA AAA	13	TTT T TT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	11	T TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	11	TTT TTT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1963	AAA AAA AAA AAA	AAA AAA AAA BAA	X	AAA AAA AAA BAA	AAA AAA AAA AA	7	AAA AAA AAA AA
1964	AAA ABA AAA AAA	AAA ABA AAA AAA	X	AAA ABA AAA AAA	AAA ABA AAA AAA	7	AAA AAA AAA AAA

NARSSARSSUAQ (CONTINUED) 61.20 314.60 NQ J61

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	7	MM	MMM	MMM	MMM
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	7	CCC	CCC	CCC	CCC
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	7	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	7	AAA	AAC	CCC	CCC
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AA			13	AAA	AAA	AAA	AAM
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	AAA	AAA	AAA	AAA
1972	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	16	AAA	AAA	AAA	AAA
1974	ABA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA		A	16	AAA	AAA		A
1975	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AA		AAA		12	AA		AAA	
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					16		A		
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					16				
1978	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					16			A	A
1979	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					16				
1980	AAA	A			AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA					16	CC			
1981					AAA	AAA	AAA	A	X	AAA	AAA	AAA	A					16				

NATAL -05.70 324.80 NL AON

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1958	B	ABB	AAA	AAA	B	BB	B	BAB		B	B	B	BBA	AAB	B	B	B	BAA	AAA	13	T	T	T	TTT	TTT
1959	ANN	BNB	BBN	BAA	BNN	BNB	NBN	BAA		BNN	BNB	NBN	BAA	BNN	ANA	AAN	AAA	13							TTT
1960	AAA	ABN	AAA	AAA	AAA	ABN	AAA	AAA		AAA	ABN	AAA	AAA	AAA	ABN	AAA	AAA	13							
1961	AAB	BAA	AUA	BBA	BBA	BAA	AUA	BBA		BBA	BAA	BUA	BBA	ABA	BAA	BUA	BBA	13							
1962	AAB	AAA	BAA	AAA	AAA	AA	AA	BAB		AAA	AA	AA	BAB	AAA	AAA	AAA	AAA	13							
1963	UUA	ABB	AAA	AAB	UUB	A B	ABA	ABB	X	UUB	A B	AAA	ABB	UUA	A			13							
1964	NBA	BAA	AAA	AAB	NBA	BBA	ABB	BAA	X	NBA	BBA	ABB	BAA					13							
1965	BBN	BA			BBN	BA				BBN	BA							13							
1966																									
1967																									
1968																									
1969				BBA																					
1970	AAA	AAB	AAB	AAB																					
1971	BBB	BBA	AAA	AAA																					
1972	AAN	BBB	BBB	BBB																					

CLOSED, 1973

NHA TRANG 12.25 109.2 33 412

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1951																MMM	MMM	8				
1952														MMM	MMM	MMM	MMM	22				
1953														MMM	MMM	MMM	MMM	22				
1954														MMM	MMM	MMM	MMM	9				
1955														MMM	MMM	MMM	MMM	9				
1956														AAA	A			12				

NORFOLK IS -29.00 168.0 NI 63!

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1964	W	W	W	W										BA	AAB	AAA	AAA	13	MM	M	M	MMM	MMM
1965														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1966														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1967														AAA	BAA	AAA	AAA	5	AAA	AAA	AAA	AAA
1968														AAA	AAA	AAA	AAA	5	TTT	TTT	TTT	TTT
1969														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT
1970														AAA	AAA	AAA	AAA	7	TTT	TTT	TTT	TTT

NORFOLK IS (CONTINUED) -29.00 168.0 NI 63!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1971					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					ABA AAA AAA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	13	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AA AAA	13	
1981					AAA AAA	13	

NORILSK 69.4 88.1 NO 369

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1968		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1969		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1970		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1971		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1972		QQQ QQQ AAQ QQQ	X		QQQ QQQ AAQ QQQ	14	
1973		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1974		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1975		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1976		QQQ Q			QQQ QQ		

NOVOKAZALINSK 45.77 62.12 NK 246

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					A AAA AAA AAA	14	M MMM MMM MM
1965					AAA AAA AAA AAA	14	M M MMM MMM MMM
1966					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972		AAA AAA AAA AQQ	X		AAA AAA AAA AQQ	14	MMM MMM MMM M
1973		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1974							
1975		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1976		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1977		QQQ QQ			QQQ QQ		

NOVOSIBIRSK 54.6 83.2 NS 355

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1969		QQ QQQ QQ QQQ			QQ QQQ QQQ QQQ		
1970		QQQ QQQ QQQ QNQ			QQQ QQQ QQQ QNQ		
1971		Q Q Q			Q Q Q		
1972		Q QQQ QBQ	X	B	Q QQQ QQQ	14	
1973		QQ QQQ QQQ			QQ QQQ QQQ		
1974							
1975		QQQ Q Q QQQ Q Q			QQQ Q Q QQQ Q Q		
1976		QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1977		QQ QQ			QQ QQ		

NURMIJARVI 60.50 24.60 NU 159

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WAA	X		AAA AAA AAA AAA	10	
1958		AAA AAA AAA AAA	X		AAA AAA AAA AAA	10	
1959		AAA AWW WWW WWW	X		AAA AAA AAA AAA	10	
1960		WWW WWW WWW	X		AAA AAA AAA AAA	10	
1961		WWW WWW WWW WW	X		AAA AAA AAA AAA	11	
1962		WWW W	X		AAA AAA AAA AAA	11	
1963	W				AAA AAA AAA AAA	11	
1964	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965	WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA AAA	11	M MMM MMM MMM
1967		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MM MMM
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM M
1969		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1970		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1971		WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1972		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1973		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974		WWW WWW WWW WWW			BBA AAA AAA AAA	12	
1975		WWW WWW WWW WWW			AAA AAA A A AAA	12	MMM MMM MMM MMM
1976		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1977		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1978		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1979		WWW WWW WWW NWW			AAA AAA	12	
1980		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1981					AA	12	

OKINAWA 26.30 127.80 OK 426

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946	AAA AAA AAA				AAA AAA AAA	5	
1947	AAA AAA AAA AAA				AAA AAA AAA AAA	5	
1948	AAA AAA AAA AAA				AAA AAA AAA AAA	5	
1949	AAA AAA A				AAA AAA ANN NAA	5	
1950	B NNN NNA AAA			AAA	AAA NNN NNA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA		12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAB AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	11	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAU UUU UUU UUU	AAU UUU UUU UUU	X	AAU UUU UUU UUU	AA	13	T
1961	AAA UUU AAA AAU	AAA UUU AAA AAU	X	AAA UUU AAA AAU	AAA AA AAA AA	13	TTT TT TTT TT
1962	UAA AAA AAA AAA	UAA AAA AAA AAA	X	UAA AAA AAA AAA	AA AAA AAA AAA	13	T TTT TTT TTT
1963	AAA AAA ABA AAA	AAA AAA ABA AAA	X	AAA AAA ABA AAA	AAA AAA ABA AAA	13	AAA AAA AAA AAA
1964	BBA AAA AAA AAA	BBA AAA AAA AAA	X	BBA AAA AAA AAA	BBA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA A AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	AAA AAA AAA AA	AAA AAA AAA AAB	X	AAA AAA AAA AAB	AAA AAA AAA AA	13	CCC CCC CCC CC
1968	AAA ABA AAA AAA	AAA ABA AAA AAA	X	AAA ABA AAA AAA	AAA ABA AAA AAA	13	CCC CCC CCC CCC
1969	NNB NNN NNN BNA	NNB NNN NNN BNB		NNB NNN NNN ANB	NNA NNN NNN NNA	13	C C
1970	ANN NNA NNN NBA	ANN NNA NNN NBA		ANN NNA NNN NBA	ANN NNA NNN NNN	13	A A AA
1971	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1972	AAA AAB PPP PPP	AAA AAA AAA AAA		AAA AAB	AAA AAA AAA AAA	12	AAA AAA AAA AAA
1973	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	AAA AAA AAA AAA
1974	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MM
1976	PPN NNN NNN NNN	AAB NNN NNN NNN			AAB NNN NNN NNN	14	
1977	NPP PPP PPP PPP	NNN AAA AAA AAA			NAA AAA AAA AAA	14	
1978	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1979	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1980	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1981		AAA AAA			AAA AAA AAA	14	

OTTAWA 45.4 284.10 OT 945

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1942														AAA	AAA	AAA	AAA	10				
1943														AAA	AAA	AAA	AAA	11				
1944														AAA	AAA	AAA	AAA	11				
1945														NNA	AAA	AAA	AAA	11				
1946														AAA	AAA	AAA	AAA	11				
1947														AAA	AAA	AAA	AAA	14				
1948														AAA	AAA	AAA	AAA	15				
1949														AAA	AAA	AAA	AAA	12				
1950			A	AAA										AAA	AAA	AAA	AAA	13				
1951	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	14				
1952	A													AAA	AAA	AAA	AAA	13				
1953														AAA	AAA	AAA	AAA	11				
1954														MAA	MMA	AAA	AAA	11				
1955														AAA	AAA	AAA	AAA	11				
1956														AAA	AAA	AAA	AAA	9				
1957			AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA						BAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1968	BAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1969	AAA	AAA	BAA	AAA	AAB	AAA	BAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1972	AAA	BAA	BAA	ABA	AAA	BAA	BAA	BBB	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1973	AAB	BBA	AAB	AAB	BAB	BBA	AAB	AAB	X					AAA	BAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1974	BBB	BBA	AAA	AAA	BBB	BBB	BBB	BAA	X					BBB	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1979	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1980	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	TTT	TTT	TTT	TTT
1981					AAA	AAA	A							AAA	AAA	AAA		12	TTT	TT	TT	

OUAGADOUGOU 12.37 358.47 OU 012

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1966															B	BBA	AAA	12		M	MMM	MMM
1967														BBA	BBA	AAB	NBA	12	MMM	MMM	MMM	MM
1968														AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1969														BAA	ABA	AAA	AAA	12	MMM	MMM	MMM	MMM
1970														AAA	BAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1971														AAA	AAA	ABB	AAB	14	MMM	MMM	MMM	MMM
1972														BAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973														ABA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974														BAA	AAA	AAA	AAA	14			MM	MMM
1975														AAA	AAA	ABN	AAA	14	MMM	MMM	MM	MMM
1976														AAA	AAA	AAA	AAA	14				
1977														AAA	AAA	AAA	AAA	14				
1978														AAA	AAA	AAA	AAA	14				
1979														AAA	AAA	AAA	AAA	14				
1980														AAA	AAA	AAA	AAA	14				

PARIS SACLAY 48.10 02.3 SC 047

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1960					A AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAB BAB NAA	12	MMM MMM MMM MM
1965					AAA AAA AAA BAN	12	MMM MMM MMM MM
1966					BBA AAA BAA ABA	12	MMM MMM MMM MMM
1967					AAA AAA AAN NAB	12	MMM MMM MM MM
1968					BAA AAA AAA AAA	12	MMM MMM MMM MMM
1969					AAB AAA AAA AAA	12	MMM MMM MMM MMM
1970					AAA AAA AAB ABA	12	MMM MMM MMM MMM
1971					S		S

REPLACED BY LANNION

PEIPING 39.9 116.4 37 440

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					AAA ABA AAA	2	
1947					AAA AAA AAA AAA	2	
1948					AAA AAA AAA AAS	1	

PENANG 5.5 100.4 38 305

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					B BBB BBB BBB	6	
1945					BBB BBS	6	

PESHAWAR 34.0 71.5 39 234

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A AAA	3	
1946					AAA AAA AAA AAA	3	
1947					AAA AS	3	

PITCAIRN IS -25.0 230.0 40 82N

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AAA	10	
1945					AAA AAA AAA AAS	10	

PLATTEVILLE 40.01 254.70 PV 842

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970	BBB						
1971	BB B B						

INTERMITTENT OPERATION

PALAU IS 7.3 134.5 34 407

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1939					BNM MMM	1	
1940					MMM MMB MMM MMM	1	
1941					MMM MMM BBM MMM	5	
1942					MMM MMM MMM MNM	5	
1943					MMM MMM BMM BMM	5	
1944					MMM MMS	5	

PALMYRA 05.38 197.82 35 705

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946	AA				AA	12	
1947	A A AAA A A AAA				AAA AAA AAA AAA	12	
1948	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1949	AAA AAA AAA AAS				AAA AAA A A AAS	12	

PANAMA 9.40 280.10 PN 909

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951	A AAA AAA			A AAA AAA		12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA		12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA		13	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA		13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA	AAA AAA	X	AAA AAA AAA AAA	AA AA AAA AAA	13	TTT TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	S	S		S	S		S

PARAMARIBO 5.80 304.80 PM J06

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WWW			AAA AAA	15	
1958		WW WW WWW WWW			AAA AAA BAA AAA	12	
1959					AAA AAB NAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA ABA	12	
1962					AAA AAN NNN NNN	12	
1964		NWW WWW WWN WWW	X	NAA AAA AAN AAA	BAA AAA AAB AAA	14	MMM MMM MMM MMM
1965		NNW NWW WWW WNW			NNA NAA AAA AAA	14	M MM MM MMM
1966		W	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	BB				BAA ABA AAA AAA	14	MMM MMM MMM MMM
1968					ABB AAB BNN NNN	14	MMM MMM M
1969					NNN NNN NNN NNN	14	
1970					NNN NNN NNN AAB	14	MMM

PARAMUSHIRO 50.1 155.3 36 550

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					BB	3	
1944					BBB BBB BBB S	3	

POINT ARGUELLO 35.60 239.40 PA 836

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963	AAA AAA	B B BA	X				
1964	AAA ABA AAA AAA	ABA ABA ABB BBA	X		A	1	
1965	AAA AAA AAA AAA	AAA AAA AAA ABB	X				
1966	AAA AAA AAA AAA	BAA AAA AUA AAA	X				
1967	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA		5	
1968	AAA AAA AAA AAA			AAA AAA AAA AAA		5	
1969	AAA AAA AAA AAA			AAA AAA AAA AAA		5	
1970	AAA AAB AAA AAA			AAA AAA AAA AAA		8	
1971	AAA AAA AAA AAA	WWW		AAA AAA AAA AAA		8	CAA
1972	AAA AAA AAA AAA	WWW WWW WWW WWW		AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	WWW WWW WWW WWW		AAA AAA AAA AAA	AAA AAA AAA AA	18	AAA AAA AAA AA
1974	AAA AAA AAA AAA	WWW WS		AAA AAA BBB AAA		14	AAA AA
1975	AAA A AAA AAA			AAA BAA AAA AAA		14	CC
1976	AAA AAA AAA AAA			AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA			AAA AAA AAA AAA		16	
1978	AAA AAA AAA AAA			AAA AAA AAA AAA		16	A A
1979	AAA AAA AAA AAA			AAA AAA AAA AAA	A AA	16	
1980	AAA AAA AAA AAA			AAA AAA AAA AAA		16	ACC AA
1981	AAA AAA AA			AAA AAA AA		16	

POITIERS 46.57 .35 PT 046

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1948					AAA AAA	16	
1949					AAA AAA AAA AAA	16	
1950					AAA AAA AAA AAA	14	
1951					AAA AAA AAA AAA	7	
1952					AAA AAA AAA AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AAA AAA	9	
1955					AAA AAA ANA AAA	9	
1956					AAA AAA AAA AAA	9	
1957		WWW WWW	X		AAA AAA AAA AAA	11	
1958		WWW WWW WWW WWW	X		AAA AAA AAA AAA	11	
1959					AAA AAA AAA AAA	11	
1960					AAA AAA AAA AAA	11	
1964					A		M
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	13	
1975					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	14	
1977					AAA AAA AAA AAA	14	
1978					AAA AAA AAA AAA	14	
1979					AAA AAA AAA AAA	14	
1980					AAA AAA AAA AAA	14	
1981							

POPAYAN 2.45 283.38 PP 902

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970	BB BBA AAB AA			UU U		13	
1971	B BB BBA						
1972	BB B BBB			B BBB		13	
1973	BBB BBB B B BBB			BBB BB B B BBB		17	
1974	BBB B B			BBB B B		17	

REPLACED BOGOTA

PORTAGE LA PRAIRIE 49.90 261.70 41 950

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					A AAA	12	
1947					AAA AAA AAA AAA	13	
1948					AAA AAA AAA AAA	13	
1949					AAA AAA NAA AAA	13	
1950					AAA AAA AAA AAA	13	
1951					AAA S	12	

PORT MORESBY -09.40 147.10 PY 50R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1961					BB AAA AAA	11	TT TTT TTT
1962	B				AAA AAA AAA AAA	7	TTT TTT TTT TTT
1963					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1964					AAA AAA AAA AAA	11	TTT TTT TTT TTT
1965					AAA AAB BAA AAA	11	TTT TTT TTT TTT
1966	A				AAA AAA AAA AAA	5	TTT TTT TTT TTT
1967					AAA AAA AAA AAA	5	AAA ATT TTT TTT
1968					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1969					AAA NBN BAA AAB	7	TTT TT TTT TTT
1970					AAA AAA AAA ANB	7	TTT TTT TTT T T
1971					AAA AAA AAA ABB	7	TTT TTT TTT TTT
1972					BAA AAB AS	7	TTT TTT TS

PORT STANLEY -51.70 302.20 PS J5J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A	4	
1946					AA AAA AAA	2	
1947					AA AAA	2	
1948					AAA AAA AAA AAB	4	
1949					BAA AAA AAA AAA	4	
1950					AAA AAA AAA AAA	4	
1951					AAA AAA AAA AAA	4	
1952					AAA AAA AAA AAA	4	
1953					AAA AAA AAA AAA	4	
1954					AAA AAA AAA AAA	4	
1955					AAA AAA AAA AAA	4	
1956					AAA AAA AAA AAA	4	
1957	WWW WWW	WWW WWW			AAA NNN AAA AAA	8	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	8	
1959	WWW WWW WWW WWW	W			AAA AAA AAA AAA	8	
1960	WWW WWW WWW WWW				AAA AAA AAA AAA	8	
1961	WWW W				AAA AAA AAA AAA	8	
1962					AAA AAA AAA AAA	8	
1963	B				AAA AAA AAA AAA	12	
1964	WWW WWW WWW WWW	WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	WWW WWA AWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WBB	WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	P WWW W	WWW WWW WWW WWW			AAA AAA AAA AAA	13	TTT TTT TTT TTT
1968	WWW WWW WWW WW	NWW WN WWW WWW			NAA ANB AAA AAA	13	TTT TTT TTT TTT
1969	WWW WWN WWW WWW	WWW WWN WWW WWW			AAA AAB AAA AAA	14	TTT TTT TTT TTT
1970	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1971	WW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974	WWW WWW WWW WWW	WW WW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975	W W WWW WWW WWW	WWW WWW WWW W			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	
1978	WWW WWW WWW WWW	WWW WWW WWW WW			AAA AAA AAA AAA	14	
1979	WWW WWW WWW WWW	WWW WW W			AAA AAA AAA AAA	14	
1980	WWW WWW WWW WWW				AAA AAA AAA AAA	14	
1981	WWW WW				AAA A	14	

PRINCE RUPERT 54.3 229.7 42 854

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AAA AAA	13	
1946					AAA AAA AAA AAA	13	
1947					A AAA AAA AAA	13	
1948					AAA AAA AAA AAA	13	
1949					AAA AAA AAA AAA	13	
1950					AAA AAA AAA AAA	13	
1951	AA AAA AAA AAA				AAA AAA AAA AAA	13	
1952	A				AAA AAA AAA AAA	12	
1953					AAA AAA AAA AAA	10	
1954	S				AAA AAS	10	

PROVIDENYA 64.40 186.60 PD 664

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	W	WW WWW	X		MM AAA AAA	13	
1958		WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1959	WW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1960	WWW WWW WWW WWW	WW WWW WWW WWW	X		BAA AAA AAA AAA	11	
1961	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	14	
1962	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	
1963	W W WWW WWW WWW	W W WWW WWW AAA	X		AAA AAA AAA AAA	14	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	WW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA AAA AAB AAA	X		AAA AAA AAB AAA	14	MMM MMM MMM MMM
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	WW WW	AA AA	X		AA AA	14	MM MM
1971		AA	X		AA	14	
1972					MMM		MMM
1977		AAA	X		AAA	13	
1979		A AA	X		AAA AA	14	
1980		AAA AA A AAA	X		AAA AA A AAA	13	
1981					AAA A	13	

PRUHONICE 50.0 14.56 PQ 052

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	A AAA AAA AAA				AAA AAA AAA	5	
1959	AAA AAA AAA AAA				AAA AAA AAA AAA	11	
1960	AAA AAA AAA AA				AAA AAA AAA AAA	11	
1961					AAA AAA AAA AAA	6	
1962					AAA AAA AAA AAA	6	
1963					AAA AAA AAA AAA	6	
1964					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	10	M
1968					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	10	M M MMM M
1970					AAA AAA AAA ABB	10	MMM MMM MMM MM
1971					NNA AAA ABA AAA	10	M MMM MMM MMM
1972					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	10	
1977					AAA AAA AAA AAA	10	
1978					AAA AAA AAA AAA	10	
1979					AAA	10	

PUERTO RICO 18.50 292.80 PR J18

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1941					A AAA AAA AAA	4	
1942					AAA AAA AAA AAA	13	
1943					AAA AAA AAA AAA	10	
1944					AAA AAA AAA AAA	11	
1945					AAA AAA AAA AAA	11	
1946					AAA AAA AAA AAA	11	
1947					AAA AAA AAA AAA	8	
1948					AAA AAA AAA AAA	8	
1949					AAA AAA AAA AAA	8	
1950					AAA AAA AAA AAA	8	
1951	NNN AAA AAA AAA			NNN AAA AAA AAA	NNN AAA AAA AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA		WB	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT T T
1958	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA			A AAA		8	T TTT
1960	AAA AAA AAA AAA						
1961	AAA AAA AAA AAA						
1962	AAA AAA AAB NBA						
1963	AAA AAB S						S

QUETTA 30.20 67.00 QT 230

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957					MMM	12	
1958					MMM MMM MMM MMM	12	
1959					MMN NNN NNN NNN	12	
1960					NNN NNN MMM MNN	12	
1961					NNN NNN NNN MNN	12	
1962					NNN NNM MNN NNN	12	

RABAT 33.90 353.90 RT 034

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958		WW WWW WWW WWW	X		AA AAA AAA AAA	12	
1959		W	X		AAA NNN AAA AAA	12	
1960		W	X		AAA AAA AAA AAA	12	
1961					QQQ QQQ QQQ QQQ		
1962					QQQ QQQ QQQ S		

RANGOON 16.8 96.5 43 316

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					B BBB AAA	5	
1944					AAA ANB MMM MMM	5	
1945					S		

RAROTONGA -21.20 200.20 RA 72J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AA A AAA	11	
1946					AAA AAA AAA AAA	6	

RAROTONGA (CONTINUED) -21.20 200.20 RA 72J

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1947														AAA	A A	AAA	AAA	2				
1948														AA	AA	AAA	AAA	13				
1949														AAA	AAA	AAA	AAA	13				
1950														AAA	AAA	AAA	AAA	12				
1951														AAA	AAA	AAA	AAA	16				
1952														AAA	AAA	AAA	AAA	16				
1953														AAA	AAA	AAA	AAA	16				
1954														AAA	AAA	AAA	AAA	16				
1955														AAA	AAA	AAA	AAA	9				
1956														AAA	AAA	AAA	AAA	9				
1957	BBB	BBB	BBB	BBB			WWW	WWW	X					BAA	AAA	AAA	AAA	9				
1958	BB	BB	BBB	BBB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	13				
1959	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	7				
1960	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	7				
1961	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	7				
1962	BBB	BBB	BBB	BBB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	8				
1963				BB	WWW	WWW	WWW	WWW	X					AAA	AAA	AAA	AAA	14				
1964					WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965		BB			WWW	WWW	WWW	WWW						AAA	AAA	AAA	AAA	14	S			
1966														AAA	AAA	AAA	ABA	14	MMM	MMM	MMM	M M
1967														AAA	AAB	BAA	AAA	14	MMM	MMM	MMM	MMM
1968			BB											AAA	AAA	AAA	AAA	2	MMM	MMM	MMM	M
1969														AAB	AAA	AAA	AAA	3	MMM	MMM	MMM	MM
1970														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1971														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1972														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1973														ABA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1974														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1975														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1976														AAA	AAA	AAA	AAA	11				
1977														AAA	AAA	AAA	AAA	11				
1978														AAA	AAA	AAA	AAA	11				
1979														AAA	AAA	AAA	AAA	11				
1980															S						S	

RESOLUTE BAY 74.70 265.10 RB 974

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1949		AAA	AAA	AAA										AA	AAA	AAA	AAA	12				
1950	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	14				
1951	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	16				
1952	A													AAA	AAA	AAA	AAA	13				
1953														AAA	AAA	AAA	AAA	11				
1954														AAA	AAA	AAA	AAA	11				
1955														AAA	AAA	AAA	AAA	11				
1956														AAA	AAA	AAA	AAA	8				
1957			ABA	AAA			ABA	AAA						AAA	AAA	ABA	AAA	10				
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11				
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10				
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	10				
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11				
1964	AAA	AAA	A B	ABA	AAA	AAA	ABB	BBA						AAA	AAA	AAA	BAA	10	MMM	MMM	MMM	MMM
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	10	TTT	TTT	TTT	TTT
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1968	AAA	AAA	ABA	AAA	AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	11	TTT	TTT	TTT	TTT
1969	AAA	AAB	BNB	NNN	AAA	AAB	BNB	NNN	X					AAA	AAB	BNB	NNN	11	TTT	TTT	TTT	TTT
1970	NAA	AAA	AAA	AAA	NAA	AAA	AAA	AAA	X					NAA	AAA	AAA	AAA	11	TTT	TTT	TTT	TTT
1971	AAA	AAA	AAA	ABB	AAA	AAA	AAA	ABB	X					AAA	AAA	AAA	ABB	11	AAA	AAA	AAA	AAA
1972	AAA	BBA	ABA	BAA	AAA	BBA	ABA	AAA	X					AAA	BBA	ABA	AAA	11	TTT	TTT	TTT	TTT
1973	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	11	AAA	AAA	AAA	AAA
1974	AAA	BAA	AAA	AAN	AAA	BAB	AAA	AAN	X					AAA	BAB	AAA	AAN	11	AAA	AAA	AAA	AAA
1975	NNB	AAA	AAA	AAA	NNB	AAA	AAA	AAA	X					NNA	AAA	AAA	AAA	11	TMT	TTT	TTT	TTT
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	TT	TTT	TTT	TTT

RESOLUTE BAY (CONTINUED) 74.70 265.10 RB 974

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1980	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	TTT TTT TTT TTT
1981		AAA AAA A			AAA AAA AAA	12	TTT TT TT

REYKJAVIK 64.10 338.20 RK A64

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944	A AAA AAA AAA				AA AAA AAA AAA	12	
1945	AAA AAA A				AAA AAA A	10	
1950	AAA AAA AAA AAA			AAA BAA AAB BAA	AAA AAA AAA AAA	12	
1951	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA A A AAA	12	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			BAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	9	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	12	TT T TT TT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	T T TTT TT TTT
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	S	S		S	S		

ROME 41.90 12.52 RO 041

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					AAA AA	9	
1957					A	8	
1958					AAA AAA AAA ABA	9	
1959					AAA AAA AAA AAA	9	
1960					AAA AAA AAA AAA	9	
1961					AAA AAA AAA AAA	9	
1962					AAA AAA AAA AAA	9	
1963					AAA AAA AAA AAA	9	
1964					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1965					AAB BAA AAA AAA	9	MMM MMM MMM MMM
1966					AAA AAA AAA ABB	9	MMM MMM MMM M M
1967					AAA AAA AAA AAA	9	MM
1968					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	9	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1973					NAA AAA AAA AAA	11	MM MMM MMM MMM
1974	B				AAA AAA AAA AAA	11	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1976					AAA ANA AAA AAA	16	
1977					AAA AAA AAA AAA	16	
1978					AAA AAA AAA AAA	16	
1979					AAA AAA AAA AAA	16	
1980					AA AAA AAA AAA	16	
1981					A		

ROSTOV 47.20 39.68 RV 149

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1956														M	M			8				
1957			WWW	WWW				W						M M	MM	AAA	AAA	10				
1958	WWW	WWW	WWW	WWW	WNW	AAA	AAA	AAA						ANA	AAA	AAA	AAA	14				
1959	WWW	WWW	WWW	WWW	AAA	AAA	NAA	AAA						AAA	AAA	NAA	AAA	14				
1960	WWW	WWW	W W	WWW	AAA	AAA	ABA	BAA	X					AAA	AAA	ABA	BAA	14				
1961	WWW	WWW	WWW	WWW	AAA	AAB	AAA	AAA	X					AAA	AAB	AAA	AAA	14				
1962	WWW	WWW	WW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963					AAA	AAA	BBA	AAA	X					AAA	AAA	BBA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAB	AAA	AAA	X					AAA	AAB	AAA	AAA	14	M	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	WWW	WWW	W W	W W	AAA	AAA	ABA	ABA	X					AAA	AAA	ABA	ABA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974	WW	WWW	WWW	WWW	NAA	AAA	BAA	AAA	X					NAA	AAA	BAA	AAA	14	MM	MMM	MMM	MMM
1975	WWW	WWW	WWW	WWW	A	AA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	M M	MM	MM
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1977	WWW	WW	WWW	WWW	AAA	AA	AAA	AAA	X					AAA	AA	AAA	AAA	14				
1978					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12				
1979					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12				
1980					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	12				

SALEKHARD 66.50 66.70 SD 266

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957			WWW				BAW	NN								BAB	NNA	10				
1958	W	WWW	WWW	WWW	W	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1959	A				AAA	ANN	NAA	AAA	X					AAA	ANN	NAA	AAA	14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1961	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	W	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW			AA	AAA	ABA	X					AAA	AAA	AAA	ABA	14				
1964		WWW	W	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	M M	MMM	MMM	MMM
1965	WWW	W W	WWW	WWW	AAA	AAB	BAA	AAA	X					AAA	AAA	BAA	AAA	14	MMM	MMM	MMM	MMM
1966	W	WW	WW		AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1969	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	W W	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	AAA	AA	AAA	X					AAA	AAA	AA	AAA	14	MMM	MMM	MM	M M
1974	WWW	WWW	W W	WWW	AAA	BAA	AAA	AAA	X					AAA	BAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	WWW		WW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AA	AAA	14	MMM	MM	MM	M
1976	WWW	WWW	WWW	WWW	AA			AA	X					AA	A	AAA	A A	14				
1977		WW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1978	WWW	WWW	WWW	WWW	A	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1979	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1980	WWW	WW			AAA	AAA	AA	A	X					AAA	AAA	AA	AAA	13				
1981														AAA	A			13				

SALISBURY -34.70 138.60 SR 53M

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1962																	AAA	11				
1963														AAA	AAA	AAA	AAA	11				
1964														AAA	AAA	AAA	AAA	11	MMM	MMM	MMM	MMM
1965														AAA	AAA	AAA	AAA	11				
1966														AAB	AAA	AAA	AAA	11	MMM	MMM	MMM	MM

SALISBURY (CONTINUED) -34.70 138.60 SR 53M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1967					AAA ABN NNN NNN	10	
1968					BBA BAB AAA BAA	10	MMM MMM MMM MMM
1969	W				AAB AAA AAA BAA	11	MMM M MMM MMM
1970					AAB AAA ANB AAB	10	MMM MMM M M MMM
1971					AAA AAA AAA ABA	15	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	10	TTT TTT TTT TTT
1973					BAA AAA AAA AAA	9	TTT TTT TTT TTT
1974					S		S

SALISBURY/RHOD -17.80 31.00 SY 11P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958					BBB BBB BBB BBB	12	
1959					S		

SANAE -70.30 357.60 QM 07!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962					A AAA AAA	6	
1963					AAA AAA AAA ABA	6	
1964					ABA AAA AAA AAA	8	MMM MMM MMM MMM
1965					AAB BAA AAA ABA	8	M MM
1966					NAA AAA AAA AAA	10	MM MM MMM MMM
1967					AAA AAA AAA AAA	10	
1968					AAA AAA AAA AAA	10	MMM MMM MMM MMM
1969					BAA AAA AAA AAA	10	MMM MMM MMM MMM
1970					AAA AAA ANN NNN	10	MMM MMM M
1971					NNB AAA AAA AAA	10	M MMM MMM MMM
1972					AAA ABN BAA AAA	11	MMM M MM MMM
1973					ANA ABA AAA AAA	11	M M MMM MMM MMM
1974					BAA AAA AAA ABA	11	MMM MMM MMM MMM
1975					ABA AAA AAA AAA	13	MMM MMM MM M M
1976					AAA AAA AAA AAA	13	
1977					AAA AAA AAA AAA	13	
1978					AAA AAA AAA AA	13	
1979					A AAA AA	13	

SAN JUAN -31.50 294.50 SN J3J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980					A AAA AAA	10	
1981					AAA	10	

SAN SALVADOR 24.10 285.50 SS J24

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	BA	BA	X	BA	BA	13	
1959	AAA AAA AAA AAA	AAA ABA AAA AAA	X	A B	A	13	T
1960	AAA AAA ABA AAA	BAB AAA AAA AAA	X				
1961	AAA AAB ABA AAA	AAA AAA AAA AAA	X				
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X				
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X				
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X				
1965	ABS	ABS	X				S

SAO PAULO -23.50 313.50 SP J2L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1953					AA AAA AAA	3	
1954					AAA AAA AAA AAA	12	
1955					AAA AAA AAA AAA	12	
1956					AA AAA AAA	11	
1957	AAA AAA	WWW W W			AAA AAA	10	
1958	AAA AAA AAA AAB	WWW WWW WWW WWW			AAA AAA AAA AAB	10	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	10	
1960		WWW WWW WWW WWW			AAA AAA AAA AAA	13	
1961		W W WWW WWW NWW			AAA AAA AAA NAA	13	
1962		WW W WWW			AAA AAA ABA BBA	13	
1963		W			BBA NBB BAM MBB	13	
1964							
1965	S	S		S	S		

SCHWARZENBURG 46.60 6.70 SZ 045

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1950					A	6	
1951					AAA AAA AAA AAA	8	
1952					AAA AAA AAA AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAA AAA AA AAA	9	
1955					AAA AAA AAA AAA	9	
1956					AAA ANN AAA AAA	9	
1957					AAA AAA AAA AAA	9	
1958	B				AAA AAA AAA AAA	9	
1959					AAA NNN AAA AAA	9	
1960					AAA AAA AAA AAA	10	
1961					AAA AAA AAA AAA	9	
1962					AAA AAA AAA AAA	9	
1963					AAA AAA AAA AAA	9	
1964					AAA AAA ANA BAA	9	MMM MMM M M MMM
1965					AAA AAA AAA AAA	9	
1966					AAB AAA AAA AAA	9	MMM MMM MMM MMM
1967					AAA AAA AAA AAB	9	MMM MMM M
1968					AAA ABA BAA AAA	9	MMM MMM MMM MMM
1969					AAA AAA BAA AAA	9	MM MMM MM MMM
1970					AAA BAB ABB BAA	9	MMM MMM MMM MMM
1971					AAA AAA AAA A	9	MMM MMM MMM MMM
1972					BAA BBA S	9	MMM MMM MMM MS

SCOTT BASE -77.90 166.80 SB 67Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	W WWW WWW	WWW WWW	X		A AAA AAA AAA	13	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1959	WWW WWW WWW WWW	WWW WWW WWW WWW	X		BBA BBA AAA AAA	7	
1960	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	7	
1961		WWW WWW WWW WWW	X		AAA AAA AAA AAA	7	
1962	BB	WWW WWW WWW WWW	X		AAA AAA AAA AAB	13	
1963		WWW WWW WWW WWW	X		BAA AAA AAA ABA	14	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965		WWW WWW WWW WWW			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966		WWW WWW WWW WWW			AAA AAA AAA ABA	14	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	3	MMM M
1969					AAA AAA AAA AAA	3	MMM MMM M M MMM
1970					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1972					BAA AAA AAA AAA	4	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	4	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	4	MMM MMM MMM MMM

SCOTT BASE (CONTINUED) -77.90 166.80 SB 67Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1976					AAA AAA AAA AAA	4	
1977					AAA AAA AAA AAA	11	
1978					AAA AAA AAA AAA	11	
1979					AAA AAA AAA AAA	11	
1980					A AAA	11	

SEATTLE 47.75 237.58 SE 847

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	BAA AAA AAA AB						
1959	AAA AAA AAA						
1960	AAA AS						

SEOUL 37.39 126.95 SU 437

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1967	A AA						
1968							
1969	B BA BBB BB						
1970	BA B	A			AAA	12	MMM
1973					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974					AAA AAA AAB AAB	12	MMM MMM MMM MMM
1975					BBA AAA ABA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	
1979					AAA AAA AAA AAA	12	
1980	WWW WWW WWW WWW				A AA AAA AAA	12	
1981					AAA AAA A	12	

SHIBATA 37.9 139.3 44 537

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					AA	10	
1947					AAA AAA AAA AAA	10	
1948					AAA AAA AAA AAA	10	
1949					AAA AAA AAA S	11	

SHIKUKA 49.3 143.0 45 549

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1940					BBM	1	
1941					BBB BBB BBB BBB	3	
1942					S		

SIMFEROPOL 44.80 34.10 SF 144

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	A AAA	X		M M M M A AAA	14	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1959	A A	BNN NAA AAA AAA	X		BNN NAA AAA AAA	14	
1961	A						

SINGAPORE 1.4 103.7 SI 301

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1943					BM MMM MMM MMM	8	
1944					MMM MNM MMM MMN	8	
1945							
1946					B B		
1948					BMM	4	
1949					AAA AAA AAA AAA	4	
1950					AAA AAA AAA AAA	4	
1951					AAA BAA AAA AAA	4	
1952					AAA AAA AAA AAA	4	
1953					AAA AAA AAA AAA	4	
1954					AAA AAA AAA AAA	4	
1955					AAA AAA AAA AAA	4	
1956					AAA AAA AAA AAA	4	
1957	WWW WWW	W WWW WWW			AAA AAA AAA AAA	6	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	6	
1959	W	W			AAA AAA AAA AAA	6	
1960					AAA AAA AAA AAA	6	
1961					AAA AAA AAA AAA	6	
1962					AAA AAA AAA AAA	6	
1963					AAA AAA AAA AAA	6	
1964	WWW WWW WWW WWW	WW W W WW WW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	WWW WW W WWW	WWW WWW WWW WWW		A AAA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	WWW WWW WWW WA	WWW WWW WWW WWW		AAA AAA AA	AAA AAA AAA AAA	13	MMM MMM MMM MMM
1967	WWW WWW WWW WWW	WWW WWW WWW WWW			ABB AAA AAA AAA	13	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1969	WBB BBB BBW WW	WWW WW WWW WWW			AAA AAA AAA AAB	13	MMM MMM MMM MMM
1970	WWW WWB BBB BWW	WWW WWW WWW WWW			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1971	BBB BBB S	WWW WWW WWS			AAA AAA AS	13	MMM MMM MS

SLOUGH 51.50 359.43 SL 051

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1930					AA AAA	2	
1931					A A A A	1	
1932					AA A AAA	5	
1933					AAA AAA AA A	6	
1934					AAA AAA AAA AAA	6	
1935					AAA AAA AAA AAA	6	
1936					AAA AAA AAA AAA	6	
1937					AAA AAA AAA AAA	6	
1938					AAA AAA AAA AAA	6	
1939					AAA AAA AAN AAA	6	
1940					AAA AAA AAA AAA	8	
1941					AAA AAA AAA AAA	8	
1942					AAA AAA AAA AAA	10	
1943					AAA AAA AAA AAA	10	
1944	W WWW WWW WWW				AAA AAA AAA AAA	8	
1945	WWW WWW WWW				AAA AAA AAA AAA	11	
1946					AAA AAA AAA AAA	11	
1947					AAA AAA AAA AAA	4	
1948					AAA AAA AAA AAA	4	
1949					AAA AAA AAA AAA	4	
1950					AAA AAA AAA AAA	4	
1951					AAA AAA AAA AAA	4	
1952					AAA AAA AAA AAA	4	
1953					AAA AAA AAA AAA	4	
1954					AAA AAA AAA AAA	4	
1955					AAA AAA AAA AAA	4	
1956					AAA AAA AAA AAA	4	
1957	WWW WWW	WWW WWW			AAA AAA AAA AAA	6	
1958	ABW WWW WBW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	6	
1959	WWW WWW WWW WWW				AAA AAA AAA AAA	6	
1960	W				AAA AAA AAA AAA	6	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964	WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM

SLOUGH (CONTINUED) 51.50 359.43 SL 051

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1965	WWW	WWW WWW WWW WWW		A AAA	AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	WWW WWW WWW WWW		AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAM M MMM
1967	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	13	AAT TTT TTT TTT
1968	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	13	AAA AAA AAA AAA
1969	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	13	TTT TTT TTT TTT
1970	WWW WWW WWW WWW	WWW WW WW WWW			AAA AAA AAA AAA	13	TTT TTT TTT TTT
1971	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	TTT TTT TTT TAA
1974	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	AAA AAA AAA AAA
1975	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	AAA AAA AAA AAA
1976	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	14	AAA AAA AAA AAA
1977	WWW WW WWW WW				AAA AAA AAA AAA	14	
1978	WWW WWW WWW WWW				AAA AAA AAA AAA	14	
1979	WWW WWW WWW WWW				AAA AAA AAA AAA	14	
1980	WWW WWW WWW WWW				AAA AAA AAA AAA	14	
1981	WWW WWW				AA	14	

SLUTSK 59.70 30.5 46 15I

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1939					MMM MMM MMM MMM	6	
1940					MMM MMM MMM MMM	6	
1941					MMM MMM MM	6	

SNAINTON 54.2 00.00 47 05D

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AA	1	

SODANKYLA 67.40 26.60 SO 166

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957					AA AAA	12	
1958					AAA AAA AAA AAA	13	
1959					AAA AAA AAA AAA	13	
1960					AAA AAA AAA AAA	13	
1961					AAA AAA AAA AAA	13	
1962					AAA AAA AAA AAA	13	
1963		AAA			AAA AAA AAA AAA	13	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1966	WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	13	M MMM MMM MMM
1967		AAA AAA AAA AAA			AAA AAA AAA AAA	13	MM MMM
1968		AAA AAA AAA AAA			AAA AAA AAA AAA	13	MMM MMM MMM M
1969		AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970		AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	B	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972		AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973		AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974		AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975		AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1976		AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1977		AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1978		AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1979		AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1981		AAA AAA AAA			AAA AAA AAA	14	

SOFIA 42.70 23.40 SQ 143

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	11	MM MMM MMM MMM
1966					AAA AAA AAA ABA	11	MMM MMM MMM MMM
1967					AAA ABA AAA AAA	11	MMM M M MMM MMM
1968					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1971					AAA AAA ABA AAA	11	
1972					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	12	

SOUTH GEORGIA -54.27 323.50 SG A5M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1970		AAA AAA			AAA AAA	12	MMM MMM
1971					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	12	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AA A	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	
1977					AAA AAA AAA AAA	14	
1978					AAA AAA AA S	14	S

SOUTH POLE -90.00 00.00 PO 09!

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	B AAA AAA AAA	AAA AAA	X	AAA AAA	AAA AAA	13	TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1961	AAA AAA AAA AAA	BBA AAA AAA AAA	X	BBA AAA AAA AAA	BBA AAA AAA AAA	13	TTT TTT TT TT
1962	AAA AAA AAA AAA	AAA AAA AAA AB	X	AAA AAA AAA AB	AAA AAA AAA A	13	TTT TTT TTT T
1963	AAN NNB AAA ANA	AAN NNB AAA ANB	X	AAN NNB AAA ANB	AAN NNB AAA AN	13	AA A AAA A
1964	AAA AAA AAA ABA	B AAA AAB BA	X	BBB AAA AAA BBA	BBB AAA AAA BAA	15	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AA AAA AAA		AAA AA AAA AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1966	AAA AAA AAA AAA	AAA AAA AAA A		AAA AAA AAA AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1967	AAA AAA AAA BAA			AAA AAA AAA BAA		7	
1968	ABB B BBS						S

SOYA SHIP -60.00 00.00 XD

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					BA	10	
1957					AAA B	9	
1958					BA	9	
1959					B AA	9	
1960					BAA B BA	9	
1961					AAB B	9	
1962					BBA BS	9	

STANFORD 37.40 237.80 ST 837

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1942					AA AAA AAA AAA	10	
1943					AAA AAA AAA AAA	11	

STANFORD (CONTINUED) 37.40 237.80 ST 837

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AAA AAA AAA AAA	14	
1945					AAA AAA AAA AAA	15	
1946					AAA AAA AAA AAA	15	
1947					AAA AAA AAA AAA	15	
1948					AAA AAA AAA AAA	11	
1949	AAA AAA				AAA AAA AAA AAA	11	
1950	AAA AAA AAA AAA				AAA AAA AAA AAA	11	
1951	AAA A AAA AAA			A AAA AAA	AAA AAA AAA AAA	13	
1952	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1953	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	12	
1954	AAA AAA AAA AAA			AAA AAA AAA AAA	AA AAA AAA AAA	12	
1955	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	13	
1956	AAA AAA AAB BNA			AAA AAA AAA BAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA	WBW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1958	AAA AAA AAA AAN	WWW WWW WWW WWW	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1959	AAA AAA NNA AAA	W	X	A	A	13	T
1963	BAA AAA AAA AAA						
1964	AAA AAA AAA AAA						
1965	AAA AAA AAA AAA						
1966	BAA AAA AAA AAA						
1967	ABN BAA AAA AAA	B AAA AAA				1	
1968	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1969	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1970	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1971	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1972	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1973	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1974	AAA AAA AAA AAA	AAA AAA AAA AAA				1	
1975	AAS	AAS				1	S

CLOSED, MAR. 1975

ST JOHNS 47.60 307.30 SJ J47

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					A		
1945					AAA AAA AAA AAA	12	
1946					AAA AA AAA AAA	13	
1947					AAA AAA AAA AAA	13	
1948					AAA AAA AAA AAA	13	
1949					AAA AAA AAA AAN	12	
1950					AAA AAA AAA AAA	12	
1951	AA AAA AAA AAA				AAA AAA AAA AAA	13	
1952	A				AAA AAA AAA AAA	12	
1953					AAA AAA AAA AAA	10	
1954					AAA AAA S	10	
1957	BAA AAA AAA AAA	AA AAA AAA AAA		BAA AAA AAA AAA	AA AAA AAA AAA	13	T TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA		AAA AA	AAA AAA AAA AAA	12	TTT TT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	
1961	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1963	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1964	AAA AAB AAA AAA	AAA AAB AAA AAA			AAA AAA AAA AAA	10	MMM MMM MMM MMM
1965	AAA AAA ABA AAA	AAA AAA ABA AAA			AAA AAA ABA AAA	10	TTT TTT TTT TTT
1966	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	TTT TTT TTT TTT
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1968	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1969	AAA ABA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1970	AAA BBA AAA AAA	AAA BBA AAA AAA	X		AAA BBA AAA AAA	11	TTT TTT TTT TTT
1971	BBA AAA ABA AAA	BBA AAA ABA AAA	X		AAA AAA ABA AAA	11	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1973	AAA BAA AAA AAA	AAA BAA AAA AAA	X				AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	AAA AAA AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1976	AAA AAA AAA AAA	AAA AAA BAA AAA	X		AAA AAA BAA AAA	11	AAA AAA AAA AAA
1977	AAA AAA S	AAA AAB S			AAA AAB S	12	AA AAA S

ST JOHNS (CONTINUED) 47.60 307.30 SJ J47

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980	AAA AAA AAA AAA	AAB BAA AAS			AAB BAA AAS	12	TTT TTT TTT S

SVERDLOVSK 56.70 61.10 SV 256

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AA AAA AAA	1	
1945					AAA AAA AAA AAA	8	
1946					MMM MMM MMM MMM	8	
1947					MM	5	
1956					M M	8	
1957	WWW WWW	WWW WWW	X		M M MMM AAA AAA	14	
1958	WWW WWW WWW WWW	WWA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1959	A A A	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1960	W WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1961	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1962	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1963	W W WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	WWW WW WW W W	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MM MMM
1968	WWW W WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970	WWW WWW W W GW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971	WWW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1974	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MM MMM MMM MMM
1975	WWW W W WWW WWW	AA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MM
1976	WWW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AA	14	
1977		A AAA AAA AAA	X		AAA AAA A A AAA	14	
1978		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1979		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1980		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1981		AA	X		AA	14	

SWAN RIVER 52.10 258.80 48 952

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					A AS	12	

SYOWA BASE -69.00 39.60 SW 16R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959	WW WWW WWW WWW	BA AAA AAA AAA			BA AAA AAA AAA	10	
1960	WWW WWW WWW WWW	A			AAA AAA AAA AAA	10	
1961	WWW WWW WWW WWW				AAA AAA AAA AAA	10	
1962					B	9	
1966	PP PPP PPP PP				NAA AAA AAA AAA	9	MM MMM MMM MMM
1967	PPP PPP PPP PPP				ABA AAA AAA AAA	9	MMM MMM MMM MMM
1968	PPP PPP PPP PPP				AAA AAA AAA AAA	9	MMM MMM MMM MMM
1969	PPP PPP PPP PPP				AAA AAA AAA AAA	9	MMM MMM M M
1970	PPP PPP PPP PPP				AAA AAA AAA AAA	10	MMM MMM MMM MMM
1971	PPP PPP PPP PPP	WWW WWW			AAA AAA AAA AAA	10	MMM MMM MMM MMM
1972	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	10	MMM MAA AAA AAA
1973	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	10	AAA AAA AAA AAA
1974	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	11	AAA AAA AAA AAA
1975	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	11	MMM MMM
1976	PPP PPP PP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	11	

SYOWA BASE (CONTINUED) -69.00 39.60 SW 16R

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1977	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1978	PPP PPP PPP PPP	WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1979	PPP PPP PPP PPP						
1980	P						

TAHITI -17.70 210.70 TT 71P

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1957	B				A	12	
1958	BBA AAA AAA AAA				AAA AAA AAA AAA	12	
1959	B				AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAB ABN ABB BBB	12	MMM MM MMM MMM
1965	B				BBB BBB AAA AAA	12	MMM MMM MMM MMM
1966	A				ABB AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969	BB				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970	B				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1976					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1977					AAA AAA AAA AAA	14	TTT TTT TTT TTT
1978					AAA AAA BBA AAA	14	TTT TTT TTT TTT
1979					AAA AAA AAA AAA	14	
1980					AAA AAA	14	

TAIPEI 25.0 121.20 TP 424

YEAR	IONOGRAMS	F-PLOTS	M	WORKSHEETS	TABULATIONS	CH	DIGITAL
	JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND	JFM AMJ JAS OND		JFM AMJ JAS OND
1950					A AAA AAA AAA	14	
1951					AAA AAA AAA AAA	14	
1952					AAA AAA AAA AAA	13	
1953					AAA AAA AAA AAA	13	
1954					AAA AAA AAA AAA	13	
1955					AAA AAA AAA AAA	13	
1956					AAA AAA AAA AAA	13	
1957	WWW WWW	WWW WWW			AAA AAA AAA AAA	11	
1958	WWW WWW WWW WWW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1959	WWW WWW WWW WBW	WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960	WWW W	AAA AAA AAA AAA			AAA AAA AAA AAA	13	
1961		BAA AAA AAA AAA			BAA AAA AAA AAA	13	
1962	BB	AAA A A AAA AAA			AAA AAA AAA AAA	13	
1963		AAA AAA AAA AAA			AAA AAA AAA AAA	13	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	15	MMM MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	15	MMM MMM MMM MMM
1966	WWW WAA AAA AAA	AAA AAA AAA AAA	X	BA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1967	AAA AAA WWW WWW	AAA AAA AAA AAA	X	AAA AAA	AAA AAA AAA AAA	15	MM M M
1968	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM M
1969	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970	W	AAA AAA AAA AAA	X	A AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1971		AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1972		AAA AAA AAA AAA	X	AAA AAA AA	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1973		AAA AAA AAA AAA	X	A	AAA AAA AAA AAA	15	MMM MMM MMM MMM
1974		AAA AAA AAA AAA	X	AAA A AAA	AAA AAA AAA AAA	15	MM MMM MMM MMM
1975		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1976		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	

TAIPEI (CONTINUED) 25.0 121.20 TP 424

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1977		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	
1978		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	
1979		AAA AAA AAA AAA			AAA AAA AAA AAA	15	
1980		AAA AAA AAA AA			AAA AAA AAA AA	15	

TALARA -04.60 278.70 TA 90M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1954	B			B		13	
1955	B A AAA AAA AAA			AAA MAA AAA AAA	BAA AAA AAA AAA	13	
1956	AAA AAA AAA AAA			AAA AAA AAA AAA	AAA AAA AAA AAA	10	
1957	AAA AAA AAA AAA	AAA AAA	X	AAA A A AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT T T
1963	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AA
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1966	S	S		S	S		S

TAMANRASSET 22.80 5.53 TN 022

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					AAA	10	
1957					AAA A AAA NAN	10	
1958					NAA AAA AAA AAN	12	
1959					AAA AAA AAA BNN	12	
1960					BAA ABA AAA AAA	12	
1961	B A B				AAB ABB BBA AAA	12	
1962					BAB NNN NNN BAB	12	
1963					AAA AAA NNA BBA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAB	12	MMM MMM MMM MMM
1968					BBB BBB BBB BBB	12	MMM MMM MMM MMM
1969					AAA AAB BBA AAA	12	MMM MMM MMM MMM
1970					BS	13	MS

CLOSED, DATE UNKNOWN

TANANARIVE -18.80 47.50 IV 21Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951					AA	20	
1952					AAA AAA AAA AAA	21	
1953					AAA AAA AAA AAA	21	
1954					AAA AAA AAA AA	17	
1955							
1956					AAA AAA AAA AAA	12	
1957					AAA AAA AAA AAA	12	
1958					BAA AAA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	

TANANARIVE (CONTINUED) -18.80 47.50 IV 21Q

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965	B AB				AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969					AAA AAA AAA ABB	12	MMM MMM MMM MMM
1970					AAN AAA AAA AAA	12	MM MMM MMM MMM
1971					AAA A	12	MMM M
1972					S		S

TASHKENT 41.33 69.62 TQ 241

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1961		A AAA	X		A AAA	15	
1962		ANN NNN NNN NNN	X		ANN NNN NNN NNN	15	
1963		NNN NNN NNN NNA	X		NNN NNN NNN NNA	15	
1964		ABA AAN BAA AAA	X		AAA AAN AAA AAA	15	M M MM MMM MM
1965		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	M M MMM MMM MMM
1966		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1967		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1968		AAA NNA AAA AAA	X		AAA NNA AAA AAA	15	MMM M MMM MMM
1969		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1970		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1971		AAA AAA AAA AAA	X		AAA AAA AAA AAA	15	MMM MMM MMM MMM
1972		ANA NNA AAA	X		ANA NNA AAA	15	M M M MMM
1978					MMM MM M	8	
1979					MM MM M MM	8	

TBILISI 41.70 44.80 TB 142

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963		A AA N	X		A AA N	14	
1964	WWW WWW WWW WWW	AAB AAA AAA AAA	X		AAB AAA AAA AAA	14	MMM MMM MM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA BBA	X		AAA AAA AAA BBA	14	M M MMM MM MMM
1966	WWW WWW WWW W W	AAA BAB ABB AAA	X		AAA BAB ABB AAA	14	MMM MMM MMM MMM
1967		AAA BBB BAA AAB	X		AAA BBB BAA AAB	14	MMM MMM MMM MMM
1968	WWW WWW WWW WWW	AAA BBB BBB BBB	X		AAA BBB BBB BBB	14	MMM MMM M M M M
1969		AAA BAA AAA ANA	X		AAA AAA AAA ANA	14	MMM MMM MMM M M
1970	N WWW WWW WWW	AAN AAA AAA AAA	X		AAN AAA AAA AAA	14	MM MMM MMM MMM
1971	WW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972	WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1973	W WWN WWW WWW	AAA AAN AAA AAA	X		AAA AAN AAA AAA	14	MMM MM MMM MMM
1974	WW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	WWW WWW WWW WWW	AAA AA AAA AAA	X		AAA AA AAA AAA	14	MMM MM MMM MM
1976	WWW WWW WWW WWW	AA AAA A A A	X		AA AAA AAA AAA	14	
1977	WWW WW WWW WWW	AA AA AAA AAA	X		AAA AAA AA AAA	14	
1978	W WW W	AA A AAA AAA	X		AA A AAA AAA	14	
1979	WW W W W	AAA AA AAA A	X		AAA AA AAA A	14	

TEHRAN 35.70 51.40 TE 236

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1963					AAA AAA AAA	8	
1964					AAA AAA AAA AAA	2	MMM MMM
1965					AAA AAA AAA AAA	2	MMM MMM MMM MMM
1966					BNA AAA AAA NAA	2	M M MMM MMM MM

TERRE ADELIE -66.66 140.02 DU 560

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949							
1950							
1951					BA AAA AAA AAA	8	
1952					B	8	
1956					AAA AAA	12	
1957					A A AAA AAA AAA	12	
1958					AAA AAA AAA AAA	12	
1959					AAA AAA AAA AAA	12	
1960					AAA AAA AAA AAA	12	
1961					AAA AAA AAA BAA	12	
1962					AAA AAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					ABA AAB AAA AAA	12	MMM MMM MMM MMM
1967					AAA BAA AAA AAA	12	M MMM MMM MMM
1968					AAA AAA BAA AAA	12	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	13	MMM MMM M M MMM
1970					AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	14	M MMM MMM MMM
1972					AAA ANN NNN NNN	14	MMM M
1973					NNA AAA AAA NAA	14	
1974					AAA AAA AAA AAA	14	
1975					AAA AAA AAA AAA	14	
1976					ABA AAA AAA AAA	14	
1977					AAA AAA AAA AAA	14	

THE PAS 54.0 259.0 49 954

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					M M	12	
1950	AAA AAA AAA				AAA AAA AAA	13	
1951	AAA AAA AAA AAA				AAA AAA AAA AAA	13	
1952	AAA AAA				BBB BBB BBB BBB	13	
1953					AAA ANN BBN NNB	13	

THULE 77.50 290.80 TH J77

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956	AA AAA AAA AAA	AAA AAA AAA AAA		AA AAA AAA AAA	AA AAA AAA AAA	8	
1957	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA	11	TT TTT TTT TTT
1958	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TT TTT TTT
1959	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1960	AAA AAA BBA AAA	AAA AAA BBA AAA	X	AAA AAA BBA AAA	AAA AAA AAA AAA	13	TTT TTT T T TTT
1961	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TTT TTT TTT TTT
1962	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	TT TTT TTT TTT
1963	ABA AAA ABB AAA	ABA AAA ABB AAA	X	ABA AAA ABB AAA	AAA AAA AAA AAA	13	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	13	AAA AAA AAA AAA
1965	AAA AAA AAA AAA	AAA UAA AAA AAA	X	AAU AAA AAA AAA	AAU AAA AAA AAA	13	TTM TTT TTT TTT
1966	AAA AAA S	AAA AAA S	X	AAA AAA S	AAA AAA S	13	MMM MMM
1969	BBB BBB BBB BBB						
1970	AAA AAA AAA AAA						
1971	BAA AAA AAA AAA	BAA AAA AAA AAA	X	BAA AAA AAA AAA		16	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	A AAA	16	AAA AAA AAA AAA
1973	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1974	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA	AAA AAA AAA AAA	16	AAA AAA AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	AA
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1977	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1978	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	A A
1979	AAA AAA AAA AAA	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1980	AAA AAA A	AAA AAA AAA AAA	X	AAA AAA AAA AAA		16	
1981		AAA AAB NNN N	X	AAA AAB NNN N		16	

THUMBA 8.60 76.90 TC 309

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					AAA	8	MMM
1965					BAA BAN AAA AAA	8	MMM MM MMM MMM
1966	A				ABA BBN BAA AAA	8	MMM MM MMM MMM
1967					AAA ABB BAA AAB	8	MM
1968					AAA BAA AAB AAA	9	MMM MMM MMM MMM
1969					ABA BAA NBA AAA	9	MMM MMM MMM MMM
1970					AAA AAA ABA AAA	9	MMM MMM MMM MMM
1971					AAB AAA AAA AAA	9	MMM MMM MMM MMM
1972					AAA BBA AAA AAA	9	MMM MMM MMM MM
1973					AAB AAA AAA ANA	9	MM M MM M M
1974					AAA NAA AAA AAA	9	MMM MM MMM MMM
1975					AAA A A NAA AAA	9	MMM MMM M
1976					AAA A	9	

REPLACED TRIVANDRUM

TIRUCHIRAPALLI 10.80 78.70 TI 311

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1949					BA AAA AAA AAA	2	
1950					AAA AAA AAA AAA	2	
1951					AAA AAA AAA AAA	2	
1952					AAA AAA AAA AAA	2	
1953					AAA AAA AAA AAA	2	
1954					AAA AAA AAA AAA	2	
1955					AAA AAA AAA AAA	3	
1956					AAA AAA AAA AAA	3	
1957		W WW			AAA AAA AAA AAA	3	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	5	
1959					AAA AAA AAA AAA	5	
1960					AAA AAA AAA AAA	5	
1961					AAA AAA AAA AAA	5	
1962					AAA BAA BAA BBB	5	
1963					BBB BBB BBB BBB	5	
1964					BBN AAA ABA AAA	5	MM MMM MMM MMM
1965					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1966					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1967					AAA AAA AAA AAA	5	M MMM MMM MMM
1968					BAA AAA AAA AAA	5	MMM MMM MMM MMM
1969					AAA AAA AAA AAB	5	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1971					AAA BAA AAA AAA	5	MMM MMM MM MMM
1972					AAA ABA AAA AAA	5	MMM MMM MMM MMM
1973					BAA AAA ABA AAA	5	M MM MMM
1974					AAA AAA AAA AAA	5	MMM MMM
1975					AAA AAA AAA AAA	5	
1976					AAA AAA AAA AAA	5	
1977					AAA AAA AAA AAA	5	
1978					A A A ABA ABA	5	
1979					AAB B A AAA AAA	5	
1980					AB BBA	5	

TIXIE BAY 71.6 129.8 TX 471

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	WWW NNN	AAA NNN	X		AAA NNN		
1958	NNN WWN WW WWW	NNN AAN AAA AAB	X		NNN AAN AAA AAA	13	
1959	NWW WWW WWW WWW	NAA AAA AAA AAA	X		NAA AAA AAA AAA	13	
1960	WWW BBW WWW WWW	AAA ANN AAA AAA	X		AAA ANN AAA AAA	13	
1961	WWW WNN NNN NNW	AAA ANN NNN NNB	X		AAA ANN NNN NNB	13	
1964	NNN NNW WW	NNN NNA AAA AAA	X		NNN NNA AAA AAA	13	M MMM MMM
1965	W WWW WW	AAA AAA BAB ABB	X		AAA AAA BAB ABB	13	M M MMM MMM MMM
1966	NNN NNN NNN NN	NNN NNN NNN NNA	X		NNN NNN NNN NNA	10	M

TIXIE BAY (CONTINUED) 71.6 129.8 TX 471

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1967	WWW	NWW	NNN	WWW	ABA	NAA	NNN	BAA	X					ABA	NAA	NNN	BAA	13	MMM	MM		MMM
1968	WWW	WWW	W		AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	13	MMM	MMM	MMM	MMM
1969					NNN	NAA	AAA	AAA	X					NNN	NAA	AAA	AAA	13		MM	MMM	MMM
1970					AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1971					AAA	A			X					AAA	A			14				
1974					AAA	AAA			X					AAA	AAA	AAA	AAA	8				
1976														AAA				14				

TOGO 10.80 0.40 TG 011

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1965																BAB	NBB	16			MMM	MM
1966														BBB	BBB	BBB	ABB	17	MMM	MMM	MMM	MMM
1967														AS				16	S			

TOKYO 35.70 139.50 TO 535

YEAR	IONOGRAMS				F-PLOTS				M	WORKSHEETS				TABULATIONS				CH	DIGITAL			
	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND		JFM	AMJ	JAS	OND
1945																	AAA	2				
1946														AAA	AAA	AAA	AAA	8				
1947														AAA	AAA	AAA	AAA	10				
1948														A A	AAA	AAA	AAA	10				
1949														AAA	AAA	AAA	AAA	11				
1950														AAA	AAA	AAA	AAA	11				
1951														AAA	AAA	AAA	AAA	12				
1952														AAA	AAA	AAA	AAA	12				
1953														AAA	AAA	AAA	AAA	12				
1954														AAA	AAA	AAA	AAA	12				
1955														AAA	AA	A	AAA	12				
1956														AAA	AAA	AAA	AAA	12				
1957			AAA	AAA			AAA	AAA						AAA	AAA	AAA	AAA	14				
1958	AAB	ABB	BBB	WBW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1959	BWW	BBB	WBB	BBB	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1960	WWW	WWW	WWW	WWP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1961	BWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWB	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1966	PPP	PP	PPP	P	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	PPP	PPP	PPP	P P	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MM	MM		
1968					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMA	AAA	AAA
1969	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAM
1970	P P	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1972	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1973	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	AAA	AAA	AAA	AAA
1974	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MM
1976	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1977	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1979	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1980	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1981					AAA	AAA								AAA	AAA	AAA		14				

REPLACED KOKUBUNJI

TOMSK 56.50 84.90 TK 356

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1937														M	MMM	MMM	MMM	1				
1938														MMM	MMM	MMM	MMM	6				
1939														MMM	MMM	MMM	MMM	6				
1940														MMM	MMM	MMM	MMM	6				
1941														MMM	MMM	MMM	MMM	6				
1942														MMM	MMM	MMM	NNM	6				
1943														MMM	MMM	MM	MMM	6				
1944														AAA	AAA	AAM	MMM	1				
1945														MMM	MMM	MMM	MMM	6				
1946														MMM	MMM	MMM	MMM	6				
1947														MM				4				
1949														AAA	AAA	AAA	AAA	3				
1950														AAA	AAA	AAA	AAA	3				
1951														AAA	AAA	AAA	AAA	3				
1956														AAA	AAA	AAA	AAA	3				
1957			WWW	WWW			AAA	AAA	X					M M	MMM	AAA	AAA	14				
1958	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1959	WW	WW	WWW	WWW	NAA	AAA	AAA	AAA	X					NAA	AAA	AAA	AAA	14				
1960	WWW	WWW	WWW	WWW	AAA	AAA	ABA	AAA	X					AAA	AAA	ABA	AAA	14				
1961	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MM	MMM
1965	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MM	MMM
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1967	WWW	WWW			AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1968			WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	M M	M M
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1970	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1971	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	M					AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1972	WWW	WWW	WWW	WWW		AAA	AAA	AAA	X						AAA	AAA	AAA	14	MMM	MMM	MMM	MMM
1973	WWW	WWW	WWW	WWW	AAA	ANA	AAA	AAA	X					AAA	ANA	AAA	AAA	14	MMM	MMM	MMM	MMM
1974	WWW	WWW	WWW	WWW	AA	AA	AAA	AAA	X					AA	AA	AAA	AAA	14	MMM	MMM	MMM	MMM
1975	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14	MMM	MMM	M	
1976	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	A	AAA	AAA	14				
1977	WWW	WWW	WWW	WWW		AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	14				
1978	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1979	WWW				AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1980	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	A	AA	13				
1981	WWW	W			A	AA			X					AAA	A			13				

TORTOSA 40.80 0.3 EB 040

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1957															AA	AAA	ABA	12				
1958														AAA	AAA	AAA	AAA	12				
1959														AAA	ABB	AAN	AAB	12				
1960														AAA	AAA	AAA	AAA	12				
1961														AAA	AAA	AAA	AAN	12				
1962														AAA	AAA	AAA	AAA	12				
1963														AAA	AAA	AAA	AAB	12				
1964														BNN	NBA	AAN	BAA	12	M	MM	MM	MMM
1965														AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1966														AAA	AAB	NNN	NNN	13	MMM	MMM		
1967			BB	BB										AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1968		B												AAA	AAB	AAA	AAA	13	MMM	MMM	M M	M M
1969		B	BB											AAA	AAA	AAA	AAA	13	MMM	MMM	M M	M M
1970														AAA	ANN	AAA	AAA	13	MMM	M	MMM	MMM
1971														AAA	AAN	NNA	AAN	13	MMM	M	M	MM
1972														NNN	AAN	NNN	NAA	13		MM		MM
1973														AAA	NNN	AAA	AAA	13	MMM		MMM	MMM
1974														AAA	AAA	AAA	AAA	13	MMM	M		
1975														AAA	AAA	AAA	AAA	13				
1976														ABB	B	BAA	AAA	13				
1977														AAA	AAA	AAA	ABA	13				
1978														AAA	NNN	NNN	NNN	13				
[illegible]														AAA	AAA	NAA	AAA	13				

TORTOSA (CONTINUED) 40.80 0.3 EB 040

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1980					AAA AAA AAA AA	13	

TOWNSVILLE -19.63 146.85 TV 51R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					A AAA AAA	18	
1947					A A NAA AAA AAA	18	
1948					A	18	
1949							
1950							
1951					A A	11	
1952					AAA AAA AAA AAA	11	
1953					AAA AAA AAA AAA	11	
1954					AAA AAA AAA AAA	10	T
1955					AAA AAA AAA AAA	10	
1956							
1957		WWW WWW			AAA AAA AAA AAB	13	TTT TTT TTT TTT
1958		WWW WWW WWW WWW			BAA ABA AAA AAB	13	TTT TTT TTT TTT
1959		BNN NNW WWW WW			BNN NBB BBB ABA	8	T TT TTT TTT
1960					BBB BAA BAB ABB	6	TTT TTT TTT TTT
1961					BAA AAA AAA ANN	6	TTT TTT TTT T
1962	A B BA				NNA ABA AAA AAA	6	T TTT TTT TTT
1963	B				AAA AAA AAA AAA	6	TTT TTT TTT TTT
1964					AAA AAA AAA AAA	11	TTT TTT TTT TTT
1965	B				AAA AAA AAA BAA	11	TTT TTT TTT TTT
1966					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1967					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1968					AAA AAA AAA AAA	5	TTT TTT TTT TTT
1969	B				AAA AAA AAA ABB	7	TTT TTT TTT TTT
1970					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1971					AAA AAA AAA AAA	7	TTT TTT TTT TTT
1972					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1973					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAN AAA	12	
1978					AAA AAA AAA AAA	13	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AAA AAA	13	
1981					AAA AAA	13	

TOYOHARA 46.9 142.8 50 546

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1942					B BBB	6	
1943					BBB BBB BBB BBB	6	
1944					BBB BBB BS	6	

TRELEW -43.20 294.70 TW J4L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	AA AAA AAA AAA				AAA ABA AAA	11	
1959	AAA AAA AAA AAA				BAA AAN BAA BNA	11	
1960	AAA NAA AAN NNA				BBB NBA BBN NNA	11	
1961	AAA AAA AAA AAA				AAA AAA AAA AAB	12	
1962	BBB				AAA BBB NBB BBB	7	
1963	AAA AAA				NNN NNN NNN NNN		
1964					BAA	12	MMM

TRELEW (CONTINUED) -43.20 294.70 TW J4L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1965		WW			BA	11	MM
1966					AA	13	
1967					A A AAA AAA A	13	
1968					QQQ QQQ QQQ QQQ		

TRINIDAD 10.75 298.43 51 J10

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1944					AA AAA AAA AA	25	
1945					AAA AAN NNA AAA	14	
1946	AAA AAA				AAA AAA AAA AAA	13	
1947	AAA AAA AAA AAA				AA AAA AAA AAA	12	
1948	AAA AAA AAA AAA				AA AAA AAA AAA	12	
1949	AAA AAA AAA AAA				AAA AAA AAA AAA	12	
1950	ANA AAA AAA AAA				ANA AAA AAA AAA	12	
1951	AAA AAB S				AAA AAB S	12	

TRIVANDRUM 8.50 77.00 TM 308

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WWN WWW WWW			AAA AAN AAA AAA	3	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	5	
1959		WWW WWW WWW WW			AAA AAA AAA AA	5	
1960					AAA AAA BBB BBB	5	
1961					ABA AAA AAA AAA	5	
1962					AAA AAA AAA AAA	5	
1963					BBA AAA AAA AAA	5	
1964					AAA AAA BBM S	5	MMM MMM MMM S

REPLACED THUMBA

TROMSO 69.70 19.00 TR 169

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					A B A	3	
1946					NNA AAA AAA AAA	5	
1947					AAN NNN NNN NNN	4	
1951					AAA AAA AAA AAA	8	
1952					AAA AAA AAA AAA	9	
1953					AAA AAA AAA AAA	9	
1954					AAM AAM MAA MMM	8	
1955					AAA AAA AAA AAA	9	
1956					AAA AAA AAA AAA	9	
1957		WWW WWW			AAA AAA AAA AAA	10	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1959		W			AAA AAA AAA AAA	12	
1960					AAA ANN NNA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					ABA BAA AAA AAA	12	
1963					AAA AAA AAA AAA	12	
1964					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966					AAN NBA AAA AAB	12	MM MM MMM MMM
1967					AAA AAA AAA AAA	12	MM MM
1968					AAA AAA AAA AAA	12	MMM MMM MMM MM
1969					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1970					BAA AAA AAA AAA	12	MMM MMM MMM MMM
1971					ABA AAA AAA AAA	13	MMM MMM MMM MMM
1972					AAA AAA NNB AAA	13	MMM MMM M MMM

TROMSO (CONTINUED) 69.70 19.00 TR 169

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1973					AAA AAA AAB NBA	13	
1974					AAA AAA AAA AAB	12	
1975					BAA AAA AAB ABB	12	
1976					BBB BBA AAA	13	
1977					A AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	

TSITSIHAR 47.3 123.9 52 447

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1940					MMM MMM MMM	6	
1941					MMM MMB BBB BBB	1	
1942					BBB BBM MBB BBB	1	
1943					BBB BBB BBB BBB	1	
1944					BBB BBB BBB BBB	4	
1945					BBB BBB BS	9	

TSUMEB -19.20 17.70 TS 11R

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		WWW WWW			AAA AAA	12	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1964		NNN NNW WWW WWW			NNN NNA AAA AAA	12	M MMM MMM
1965		WWW WWW WWW WWW			AAA BAA AAA BAB	12	MMM MMM MMM MMM
1966		WWW NNN NNN NNN			BBB NNN NNN NNN	12	MMM
1967		NNN WWW WWW WWW			NNN AAA AAA AAA	12	MMM MMM MMM
1968		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1969		WWW WWN NNN NNN			AAA AAN NNN NNN	12	MMM MM
1970		NNN NWW WWW WWW			NNN NAA AAA AAA	12	MM MMM MMM
1971		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1972					Q QQQ		
1973		WWW WWW WWW WWW			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1974		WWW WWW WWW NNN			AAA AAA AAA NNN	12	MMM
1975		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1976					S		

TUCUMAN -26.90 294.60 TU J20

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	AAA B A			AAA AAA	12	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1959	B	BAB AAB AAA AAA			AAB AAB AAA BAA	11	
1960		AAB BBA AAB NNN			AAA AAA AAB NNB	12	
1961		AAA BBB BBB NNN			AAA AAA BBB NNN	12	
1962	A	NNN NNN NN			NNN NNN NNB ABA	10	
1963		NNN NAA AAA AAA			ABA AAA AAA AAA	12	
1964		BNN BAA AAA AAN			BNN BAA AAA AAN	12	M MMM MMM MM
1965		NNN NNN NAA AAA			NNN BAA AAA AAA	12	MM MMM MMM
1966					BAA BBA BAA AAA	13	MMM MM MMM MMM
1967					AAA AAA ABB ABA	3	MMM MMM MMM MMM
1968					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1969					AAA AAA AAA AAA	3	MMM MMM
1970					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	3	MMM MMM MMM MMM
1973	BB	B			AAA AAA AAA AAA	3	MMM MMM M
1974					AAA AAA A A	13	
1975					AAA AAA AAA BAA	13	

TUCUMAN (CONTINUED) -26.90 294.60 TU J20

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1976					UUU AAA AAA AAA	13	
1977					AAA AAA AAA AAA	13	
1978					AAA AAA	13	

TUNGUSKA 61.6 90.0 TZ 362

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1968	QQ Q QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1969	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1970	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1971	QQQ QQQ QQQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ QQQ QQQ		
1972	QQQ QQQ QQ QQQ	QQQ QQQ QQQ QQQ			QQQ QQQ BBQ QQQ	12	
1973		QQQ			QQQ		
1976					M MMM	7	
1977					MMM MMM MMM MMM	7	
1978					M MM MMM M	7	
1979					MM MMM MM M	7	

UPPSALA 59.80 17.60 UP 158

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1952					AAA AAA AAA AAA		
1953					AAA AAA AAA AAA		
1954					AA AA AA		
1955					AAA AAA AAA AAA		
1956					AAA AAA AAA AA		
1957		WWW WWW			AAA AAA AAA AAA	10	
1958		WWW WWW WWW WWW			AAA AAA AAA AAA	10	
1959		WWW WWW WWW WWW			AAA AAA AAA AAA	11	
1960		WWW WWW WWW WWW			AAA AAA AAA AAA	12	
1961					AAA AAA AAA AAA	12	
1962					AAA AAA AAA AAA	13	
1963		WWW WWW WWW WWW			AAA AAA AAA AAA	13	
1964		WWW WWW WWW WWW			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965		W W			AAA AAA AAA AAA	13	MTT TTT TTT TAA
1966					AAA AAA AAA AAA	13	AAA AAA AMM MMM
1967					AAA AAA AAA AAA	13	MM M MMM
1968					AAA AAA AAA AAA	13	MMM MMM MMM M
1969					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	13	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1974					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1975					AAA AAA AAA AAA	18	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	18	
1977					AAA AAA AAA AAA	18	
1978					AAA AAA AAA AAA	18	
1979					AAA AAA AAA AAA	18	
1980					AAA AAA AAA AAA	18	
1981					AAA AAA AAA	18	

USHUAIA -54.80 291.70 UA J5M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957					BN	12	
1958					AAA NNN BNA ABA	12	
1959					BAN NNN NNN NNN	11	
1961					NNN NBN NNB BAN	12	

USHUAIA (CONTINUED) -54.80 291.70 UA J5M

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1962	BB	A ABA			BBA BBA AAA ABA	12	
1963	A AAA	ANN NBB			ANN NBB	12	
1964		W WWW			A AAA	13	M MMM
1966		WWW			AAA AA AA A	13	MMM
1967					AAA AAA AAA AAA	13	
1968					AAA AAA A A A	13	
1974					AA	14	
1975					AA A	14	MM M

VANIMO - 2.70 141.30 VA 50L

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1964					BBB AAB	11	TTM TTT
1965					ABA AAA AAB BAA	11	TTT TTT TTT TTT
1966	A				AAA NBA AAA BAA	5	TTT TTT TMT TTT
1967					ABA AAA AAA AAA	5	TTT MM
1968					AAA AAA AAA AAA	5	MMM MMM MMM MMM
1969					AAA BAA ABA BAA	7	MMM MMM MMM MMM
1970					AAA AAA AAA AAA	7	MMM MMM MMM MMM
1971					AAA AAA AAA AAA	7	MMM MMM MMM MMM
1972					AAA AAA AAA AAA	6	MMM MMM MMM MMM
1973					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1974					AAA AAA AAA AAA	6	TTT TTT TTT TTT
1975					AAA AAA AAA AAA	12	MMM MMM MMM MMM
1976					AAA AAA AAA AAA	12	
1977					AAA AAA AAA AAA	12	
1978					AAA AAA AAA AAA	12	
1979					AAA AAA AAA AAA	13	
1980					AAA AAA AAA AAA	13	
1981					AAA AAA	13	

VICTORIA 48.40 236.60 VI 848

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	AAA AAA	AAA AAA		AAA AAA	AAA AAA	10	
1958	AAA AAA AAA AAA	BAA AAB AAA AAA		BAA AAB AAA AAA	AAA AAA AAA AAA	8	
1959		AS		AS	AS	8	

VICTORIA BEACH 50.8 263.95 53 951

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1945					AM	7	

CLOSED IN 1945

VOSTOK -78.4 106.9 VO 47P

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1958	W WWW WWW WWW	A AAA ABA AAB	X		A AAA AAA AAB	12	
1959	WWW WWW WWW WWW	BAA AAA AAA AAA	X		BAA AAA AAA AAA	13	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1961	WW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	
1962							
1963							
1964	NNN WWW WWW	NNN BAA AAA BAA	X		NNN AAA AAA AAA	13	MMM MMM MM
1965	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	13	M M MMM MMM MMM

VOSTOK (CONTINUED) -78.4 106.9 VO 47P

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1966	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1968	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1969	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1970			W	WWW	WWW	AAA	AAA	AAA	X					AAA	AAA	AAA	AAA	13				
1971																						
1972																						
1973	A																					
1974	AA																					
1975	WWW	W																				
1976			WWW	WWW	WWW		A	AAA	AAA	AAA	X					A	AAA	AAA	AAA	13				

WAKKANAI 45.40 141.70 WK 545

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1947															A	AAA	AAA	AAA	10				
1948														AAA	AAA	AAA	AAA	10				
1949														AAA	AAA	AAA	AAA	11				
1950														AAA	AAA	AAA	AAA	11				
1951														AAA	AAA	AAA	AAA	11				
1952														AAA	AAA	AAA	AAA	11				
1953														AAA	AAA	AAA	AAA	11				
1954														AAA	AAA	AAA	AAA	11				
1955														AAA	AAA	AAA	AAA	3				
1956														AAA	AAA	AAA	AAA	3				
1957			WWW	WWW			AAA	AAA						AAA	AAA	AAA	AAA	12				
1958	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1959	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1960	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1961					AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1962	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1963	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12				
1964	WWW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1965	WWW	WWW	WWW	WW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1966	WW	WWW	WWW	WWW	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMM	MMM	MMM
1967	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MM	MM		
1968	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	MMM	MMA	AAA	AAA
1969	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1970	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1971	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	12	AAA	AAA	AAA	AAA
1972	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1973	PPP	PPP	PPP	PPP	AAA	AAA	BAA	AAA						AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1974	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1975	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14	MMM	MMM	MMM	MM
1976	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1977	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1978	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1979	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1980	PPP	PPP	PPP	PPP	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	14				
1981					AAA	AAA								AAA	AAA	AAA		14				

WALLOPS IS 37.9 284.5 WP 937

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1963			AA	AAA			AA	BBB	X									15				
1964	AAB	AAA	AAA	AAA	BBB	AAA	AAA	AAA	X									15				
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									15				
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X									15				
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	A	A	MMM	A			15	CCC	CCC	C	C
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	A	AAA	15	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1970	AAA	AAB	AAA	AAA	AAA	AAB	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA

WALLOPS IS (CONTINUED) 37.9 284.5 WP 937

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1972	AAA	AAA	AAA	AAA	AAA	AA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1973	AAA	AAA	AAA	AAA	AA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1974	AAA	AAA	AAA	AAA	AA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1975	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1976	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	18	AAA	AAA	AAA	AAA
1977	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1978	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1979	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	17	AAA	AAA	AAA	AAA
1980	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AA		AAA	AAA	AAA	AA
1981	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AWW		AAA	AAA	AAA	AAA									

REPLACED WASHINGTON

WASHINGTON 38.70 282.90 WA 938

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1936	AAA	AAA	AAA	AAA														6				
1937	AAA	AAA	AAA	AAA														6				
1938	AAA	AAA	AAA	AAA														6				
1939	AAA	AAA	AAA	AAA														6				
1940	AAA	AAA	AAA	AAA														6				
1941	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1942	AAA	AAA	ABA	BAA										AAA	AAA	AAA	AAA	13				
1943	BAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1944	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	13				
1945	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1946	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1947	AAA	AAA	AAA	AAA										AAA	BBB	AAA	AAA	12				
1948	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1949	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1950	AAA	AAA	AAA	AAA										AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA						BA	A			AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	11				
1957	AAA	AAA	AAA	AAA			AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	T T
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1963	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1964	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1966	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1968	AAA	AAA	ABB	S	AAA	AA		S	X	AAA	AAA	ABB	S	AAA	AAA	A	S	13	CCC	CCC	C	S

REPLACED BY WALLOPS ISLAND

WATHEROO -30.30 115.90 WT 43!

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1937														MMM	MMM	MMM	MMM	4				
1938														MMM	MMA	AAA	AAA	6				
1939														AAA	AAA	AAA	AAA	6				
1940														AAA	AAA	AAA	AAA	9				
1941														AAA	AAA	AAA	AAA	9				
1942														AAA	AAA	AAA	AAA	15				
1943					B									AAA	AAA	AAA	AAA	12				
1944														AAA	AAA	AAA	AAA	12				

WATHEROO (CONTINUED) -30.30 115.90 WT 43!

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1945														AAA	AAA	AAA	AAA	11				
1946														AAA	AAA	AAA	AAA	10				
1947														AAA	AAA	AAA	AAA	10				
1948														AAA	NNA	AAA	AAA	10				
1949														AAA	AAA	AAA	AAA	10				
1950														AAA	AAA	AAA	AAA	9				
1951														AAA	AAA	AAA	AAA	9				
1952														AAA	AAA	AAA	AAA	9				
1953														AAA	AAA	AAA	AAA	9				
1954														AAA	AAA	AAA	AAA	9				
1955														AAA	AAA	AAA	AAA	9				
1956														AAA	AAA	AAA	AAA	9				
1957							WWW	WWW						AAA	AAA	AAA	AAA	14				
1958					WWW	WWW	WWW	WWW						AAA	AAA	AAA	ABA	13				
1959														AAB	S			8				

REPLACED BY MUNDARING

WHITE SANDS 32.30 253.50 WS 832

YEAR	IONOGRAMS JFM	AMJ	JAS	OND	F-PLOTS JFM	AMJ	JAS	OND	M	WORKSHEETS JFM	AMJ	JAS	OND	TABULATIONS JFM	AMJ	JAS	OND	CH	DIGITAL JFM	AMJ	JAS	OND
1946		A	AAN	AAA											A	AAN	AAA	9				
1947	NNA	AAA	NNA	AAA										AAA	AAA	AAA	AAA	12				
1948	WWW	WWW	WWW	WWW										AAA	AAA	AAA	AAA	12				
1949	WWW	WNW	WWW	AWW										AAA	AAA	AAA	AAA	12				
1950	WWW	WWW	WWW	WWW										AAA	AAA	AAA	AAA	12				
1951	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1952	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1953	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1954	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	12				
1955	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13				
1956	AAA	AAA	AAA	AAA						AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	10				
1957	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1958	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1959	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1960	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1961	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1962	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1963	ABA	AAA	BBB	BUA	ABA	AAA	BBB	BUA	X	ABA	AAA	BBB	BUA	ABA	AAA	B	A	13	AAA	AAA	AAA	AAA
1964	BBA	AAA	AAA	ABA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1965	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	TTT	TTT	TTT	TTT
1966	BAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA	X	BAA	AAA	AAA	AAA	BAA	AAA	AAA	AAA	13	MMM	MMM	MMM	MMM
1967	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	CCC	CCC	CCC	CCC
1968	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	AAA	AAA	AAA	AAA
1969	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	X	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	13	CCC	CCC	CCC	CCC
1970	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA	AAA	AAA	A	A	13	TTT	TTA	AAA	TAT
1971	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		AAA	AAA	AAA	AAA					13	TTT	TTT	TTT	ATT
1972	AAA	AAA	AAN	NNN	AAA	AAA	AU			AAA	AAA	AU	U	AAA	AAA			13	AAA	AAA	A	
1973	BAN	ABA	BAB	ANB	UU					UU			U				A	18				M
1974	ABN	BNB	BAA	ABA														18				
1975	AAA	AAA	AAA	ABA																		
1976	AAA	AAA	AAA	BAA						A		BB	AAB					17			A	
1977	BAA	AAA	AAA	AAA			WWW	WWW		BAA	AAA	AAA	AA				A	17				A
1978	AAA	AAA	AAA	AAA	W					AAA	AAA	AAA	AAA	A				17	A		A	A
1979	AAA	A	AA	A						AAA		A		A		A		16				
1980	AA									AA								16	A		A	

WILKES -66.90 110.50 WL 460

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	B AAA AAA AAA	AAA AAA		B AAA AAA AAA	AAA AAA	13	TT TT
1958	AAA NBB AAA AAA	AAB NBA AAA UAA		AA NBA AAA UAA	AAN NBA AAA AA	13	TT T TTT TT
1959	AAA AAA AAA AAA	A		A	AAA AAA AAA AAA	11	T
1960	AAA AAA AAA AAA	AA AAA BAA			AAA AAA AAA AAB	11	
1961	AAA AAA AAA AAA				AAA AAA AAA AAA	11	
1962	AAA AAA AAA AAA				AAA AAA AAA AAA	11	
1963	B AAA				BNN NNN NNN AAA	11	
1964	AAA AAA AAA AAA	BAA AAA AAA AAA			BAA AAA AAA AAA	11	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	A AA			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1966	A	AAA AAA AAA AAA			AAA AAA AAA AAA	11	MMM MMM MMM MMM
1967		AA AA AAA B			AAA AAA AAA AAA	11	MM MMM MMM MMM
1968					AAA AAA AAA AAA	11	MMM MMM MMM MMM
1969	S				AS	11	MS

REPLACED BY CASEY

WINNIPEG 49.80 265.60 WI 949

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1951	AAA AAA AAA				AAA AAA AAA AAA	13	
1952	A				AAA AAA AAA AAA	13	
1953	A				AAA AAA AAA AAA	10	
1954	A				AAA AAA AAA AAA	10	
1955					AAA AAA AAA AAA	10	
1956					AAA AA AAA AAA	9	
1957	AAA AAA	AAA AAA			AAA AAA AAA AAA	11	
1958	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	
1959	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	
1960	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	11	
1961	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1962	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	
1963	ABA AAA AAA AAA	ABA AAA AAA AAA			ABA AAA AAA AAA	10	
1964	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	MMM MMM MMM MMM
1965	AAA AAA AAA AAA	AAA AAA AAA AAA			AAA AAA AAA AAA	10	TTT TTT TTT TTT
1966	BAA BAA AAA AAA	BAA BAA AAA AAA	X		BAA BAA AAA AAA	11	TTT TTT TTT TTT
1967	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1968	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1969	AAA AAA AAA AAA	AAA ABA AAA AAA	X		AAA ABA AAA AAA	11	TTT TTT TTT TTT
1970	AAA BAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1971	AAA AAA AAB AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	AAA AAA AAA AAA
1972	AAA AAA AAA AAA	ABA AAB BAA AAB	X		ABA AAB BAA AAB	11	TTT TTT TTT TTT
1973	BAA BBB AAA AAB	BAB BBB AAA AAA	X		BAB BBB AAA AAA	11	AAA AAA AAA AAA
1974	AAA BAB AAA AAA	AAA BAB AAA AAA	X		AAA BAB AAA AAA	11	AAA AAA AAA AAA
1975	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	11	TTT TTT TTT TTT
1976	AAA AAA AAA AAA	AAA AAA AAA AAA	X		AAA AAA AAA AAA	12	AAA AAA AAA AAA
1977	S	S	X		S		S

WOOMERA -31.00 138.6 WO 53J

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1961	B				A	10	
1962					AAA AAA AAA AAA	10	
1963					AAA AAA AAA AAA	10	
1964					AAA AAB AAA AAA	12	MMM MMM MMM MMM
1965					AAA AAA AAA AAB	12	MMM MMM MMM MMM
1966					BAA AAA AAA AAA	10	MMM MMM MMM MMM
1967	B				AAA AAA AAA AAA	10	M M
1968					AAA AAA AAA ABA	10	MMM MMM M MMM
1969	B				QQQ QQQ QQQ QQS		S

WUCHANG 30.60 114.40 54 430

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946							
1947					AA AAA	10	
1948					AAA AAA AAA AAA	10	
1949					AAA AAA AAA AAA	10	
					AAA AS	10	

YAKUTSK 62.0 129.60 YA 462

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957		W WWW	X		MM MMM AAA AAA	10	
1958	WW WWW	WW WW WWW WWW	X		WWW WAA AAA AAA	13	
1959	WWW WWW WWW WWW	AA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1961	WWW WWW WWW WWW	AAA AAA AAA AAB	X		AAA AAA AAA AAB	14	
1962	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1963	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1965	WWW WWW WWW WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1966	WWW W W WW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1967	WWW WWW WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1968	WWW WWW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1969	W W WW	AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1970		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1971		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	MMM MMM MMM MMM
1972		AAA ANA ANA AAA	X		AAA ANA ANA AAA	14	MMM MMM MMM MMM
1973		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1974		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1975		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1976		AAA AAA AAA AAA	X		AAA AAA AAA AAA	14	
1977		AAA AAA A A AAA	X		AAA AA A AAA	14	
1978		AAA AAA AAA AA	X		AAA AAA AAA AA	14	
1979		AAA AAA	X		AAA AAA	13	

YAMAGAWA 31.20 130.60 YG 431

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1946					A	8	
1947					AAA AAA AAA AAA	10	
1948					AAA AAA AAA AAA	10	
1949					AAA AAA AAA AAA	11	
1950					AAA AAA AAA AAA	11	
1951					AAA AAA AAA AAA	11	
1952					AAA AAA AAA AAA	11	
1953					AAB AAA AAA AAA	11	
1954					AAA AAA BBB BBB	11	
1955					AAA AAA AAA AAA	3	
1956					AAA AAA AAA AAA	3	
1957	WWW WWA	AAA AAA			AAA AAA AAA AAA	12	
1958	AWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1959	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1960	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1961	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1962	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1963	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	
1964	WWW WWW WWW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	13	MMM MMM MMM MMM
1965	WWW WWW WMW WWW	AAA AAA AAA AAA			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1966	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	MMM MMM MMM MMM
1967	P P PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	MM MM
1968	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	MMM MA AAA AAA
1969	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	AAA AAA AAA AAA
1970	PPP PPP PBP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	AAA AAA AAA AAA
1971	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	AAA AAA AAA AAA
1972	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	AAA AAA AAA AAA
1973	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	12	AAA AAA AAA AAA

YAMAGAWA (CONTINUED) 31.20 130.60 YG 431

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1974	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MMM
1975	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	MMM MMM MMM MM
1976	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1977	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1978	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1979	PPP PPP PPP PPP	AAA AAA AAA AAA			AAA AAA AAA AAA	14	
1980	PPP PPP PPP PPP	AAA AAA AAA AA			AAA AAA AAA AAA	14	
1981		AAA AAA			AAA AAA AAA	14	

YELLOW KNIFE 62.40 245.60 YE 862

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1957	A AAA AAW	NBA		NBA	NBA	6	
1958	AAA WW AAA AAA	AAA BNB AAA AAA		AAA BNB AAA AAA	AAA NB AAA AAA	6	
1959	S	BS		BS	BS	6	

YUZHNO SAKHALI 47.0 143.0 SA 547

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1956					MM	8	
1957	W	WWW WWW	X		M MM BAA AAA	13	
1958		WWW WWW WWW WWW	X		AAA AAA AAA AAA	12	
1959		WWW WWW WWW WWW	X		ABA AAA BAB AAA	13	
1960	W W	WNW WWW WWW WWW	X		ANB BAA ABA AAA	13	
1961	WWW WWW WWW WWW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1962	WWW W W WWW WW	WWW WWW WWW WWW	X		AAA AAA AAA AAA	13	
1963		WWW WWW WWW WWW	X		AAA AAA AAA AAN	13	
1964	W WWW WWW WWW	NNW WWW WWW WWW	X		NNA AAA AAA BAA	13	M MMM MMM MMM
1965	WWW WWW WWW WWW	AAA AAA AAA AAB	X		AAA AAA AAA AAB	14	MMM MMM MMM MMM
1966	WWW WWW WWW WWW	AAA AAB AAA ABA	X		AAA AAB AAA ABA	14	MMM MMM MMM MMM
1967	W W WWW WWW WWW	AAA AAB AAA AAA	X		AAA AAB AAA AAA	14	M M MMM MMM MMM
1968	WW WWW WWW W W	NAA BAA AAB AAA	X		NAA BAA AAB AAA	14	MMM MMM MMM MMM
1969	NWW W	NAA AAA AS	X		NAA AAA AS	14	MM MMM MS

ZARYA SHIP XF

YEAR	IONOGRAMS JFM AMJ JAS OND	F-PLOTS JFM AMJ JAS OND	M	WORKSHEETS JFM AMJ JAS OND	TABULATIONS JFM AMJ JAS OND	CH	DIGITAL JFM AMJ JAS OND
1959	BB BBB	BB BBB	X	BB BBB		13	
1960	BBB BBN NNN BBB	BBB BBN NNN BBB	X	BBB BBN NNN BBB		13	
1961	BBB BNN NBB BNN	BBB BNN NBB NNN	X	BBB BNN NBB NNN		13	
1962	NNN NNN NNB BBB	NNN NNN NNB BBB	X	NNN NNN NNB BBB		14	
1963	BBA BBN NNN NNN	BBA BBN NNN NNN	X	BBA BBN NNN NNN		14	
1964	NNN NNN NBB BBN	NNN NNN NBB BBN	X	NNN NNN NBB BBN		14	
1965	NNN NNN NNB ABB	NNN NNN NNB ABB	X	NNN NNN NNB ABB		14	
1966	BBB	BBB	X	BBB		14	

VI. DATA PUBLICATIONS

1. Ionospheric Data was a monthly publication of NOAA and its predecessors for 30 years, 1944-1974, and back issues are available as indicated below. A complete index of stations and dates of observations published in Ionospheric Data is available free of charge. The basic data which comprised Ionospheric Data continue to be available on an individual request basis. The monthly issues provided monthly median data, by hour, of the ionospheric vertical soundings stations. In 1973-1974 the publication also included detailed monthly data from a single representative station, including daily-hourly values of all measured characteristics, f-plots for Regular World Days, and an N(h) contour graph. When appropriate, selected ionospheric data for a period of major ionospheric disturbance (Retrospective World Interval) were also included. Note that the date of issue does not signify the date of the month or months during which the observations were taken.

   Back issues in booklet form are available as long as stocks exist (for most months 1964 to September, 1974) at $1.50 per booklet. Back issues on 35 mm microfilm are available for 1944-1974 at $20.00 per year. Orders should be sent to World Data Center A for Solar Terrestrial Physics, NOAA, D63, 325 Broadway, Boulder, CO, 80303, USA. Orders must include checks or money orders payable in U.S. currency to Department of Commerce, NOAA/NGDC.

2. AFCRL Geophysics and Space Data Bulletin was a quarterly publication containing ionospheric data from Maynard and Goose Bay. These data consisted of height plots of monthly median values of h'F2, h'F, h'E, h'Es and frequency plots of foF2, foF1, foE, foEs. In addition to the plots, tables of hourly values and their medians were published from both of these stations for each characteristic scaled.

   The publication of this Bulletin by the Space Physics Laboratory, Air Force Cambridge Research Laboratories*, L. G. Hanscom Field, Massachusetts, began with the first quarter of 1964 and was terminated at the end of the fourth quarter of 1974. Copies are available from the National Technical Information Service, Springfield, VA, 22151.

3. USSR Cosmic Data is published monthly and lists ionospheric data from the USSR network of ionospheric stations. Data published from Moscow (IZMIRAN) are hourly values of the basic ionospheric characteristics: critical frequency of the F2 layer (foF2), maximum usable frequency factor (M(3000)F2), critical frequency of the Es layer (foEs), minimum frequency of reflection (f-min), and the variation of the foF2 around the median (ΔfoF2). Also, three-hourly ΔfoF2 values are plotted on a solar synoptic chart.

   Observations from the remaining USSR stations are published only as monthly median values of selected ionospheric characteristics.

   The monthly Bulletin is published by IZMIRAN, Academy of Sciences of the USSR, and any remarks or requests should be sent to the following address: 142092, IZMIRAN, p/o Akademgorodok, Moscow, USSR.

4. UAG-Reports are a series of reports which are published on an irregular schedule. They cover a variety of subjects, including ionospheric phenomena. A limited free distribution is made to contributors to the reports and to others under data exchange agreements; otherwise, these reports are sold, either individually or on an annual subscription basis. Subscriptions or single issues may be ordered from: WDC-A for STP, NOAA D63, 325 Broadway, Boulder, CO 80303, USA.

---

* Now Air Force Geophysics Laboratory.

VII. DATES OF SPECIAL OBSERVATIONAL INTERVALS

Special World Intervals and Retrospective World Intervals (Relative to Ionospheric Programs)

Listed below are the Special World Intervals and Retrospective World Intervals announced for ionospheric programs from the IGY onward. These were periods for which special data reductions were requested. The selections were made by the International Ursigram and World Days Service (IUWDS), or in recent years by the Monitoring of the Sun-Earth Environment (MONSEE) program of the Special Committee on Solar-Terrestrial Physics.

1957
June 30 -July 3
Aug. 24, 29-30
Sept. 2-4, 12-13
Oct. 22-23
Nov. 26-27

1958
Mar. 5, 15, 23-25, 30-31
June 6-8, 20-22
July 8-9, 30-31
Aug. 17-18, 24, 27-28
Oct. 23-25
Nov. 26-27
Dec. 13-14

1959
Jan. 24-25
Feb. 11-12, 25-26
Mar. 26-28
Apr. 10-11
May 12-13
June 11-12
July 15-16
Sept. 4-5, 20-21
Nov. 23-24, 28-29
Nov. 30 - Dec. 2

1960
Feb. 5-6
Mar. 31 - Apr. 3
Apr. 28-30
May 1, 7-9
June 4-6
Aug. 16-18
Sept. 4-6
Oct. 6-8
Nov. 12-17

1961
Mar. 6-7, 27-28
May 6-7
July 12-18, 27-28
Aug. 30-31
Sept. 24-26, 29-30
Oct. 1-2,28-29
Nov. 3-4
Dec. 1-3

1962
Jan. 10-11
Feb. 16-17
Mar. 2-3
Apr. 7-8, 22-23
July 26-27
Aug. 1-2, 22-23
Sept. 12-13
Oct. 8-9
Dec. 18-21

1963
Jan. 13-15, 30 - Feb. 1
May 1-3
Aug. 18-19
Sept. 13-30
Oct. 28-31

1964
Jan. 3-4
Mar. 4-5,27 - Apr. 3
Sept. 6-9, 21-24

1965
Feb. 5-9
June 14-18

1966
Mar. 12-31
July 7-11
Aug. 28 - Sept. 6

1967
Jan. 28-30
May 24-31

1968
June 9-13
Oct. 24 - Nov. 6
Nov. 18-20

1969
Mar. 21-26
Nov. 2, 8-10

1970
Jan. 24
Mar. 6-10
Sept. 1
Nov. 6-8

1971
Jan. 24
Sept. 1

1972
July 26 - Aug. 14

1973
June 30 - July 3

1974

1975
Sept. 1 - Oct. 31

1976
Mar. 15 - May 15

1977
Mar. 15 - May 15
Sept. 7 - 24
Oct. 15 - Dec. 15

1978
June 1 - July 31

1979
Apr. 15 - June 15
Aug. 1 - Sept. 30
Oct. 15 - Dec. 15

1980
Feb. 15 - Mar. 16
Apr. 26 - June 27
Oct. 1 - Nov. 30

1981
Apr. 10 - June 21
Dec. 1 - Jan. 31

1982
May 20 - July 20

NOTE: These are the dates related to the symbol W in the main catalog, section V.

Regular World Days

A table of the Regular World Days for each year since 1957, selected first by CSAGI and now by IUWDS, is presented below. Beginning in 1961 these are sequences of three days, with the middle day, the Priority Regular World Day, always on a Wednesday.

	1957	1958	1959	1960	1961	1962	1963
J		3,4,19,20	3,4,9,10	12,13,14	17,18,19	16,17,18	22,23,24
F		10,18,19,26	17,18,19	16,17,18	14,15,16	13,14,15	19,20,21
M		20,21,28	17,18,19	15,16,17	21,22,23	20,21,22	19,20,21
A		18,19,20	14,15,16	19,20,21	18,19,20	17,18,19	16,17,18
M		5,18,19	12,13,14	17,18,19	16,17,18	15,16,17	14,15,16
J	27,28,29	9,17,18,24	16,17,18	14,15,16	20,21,22	19,20,21	18,19,20
J	4,26,27	16,17,27	14,15,16	12,13,14	18,19,20	17,18,19	16,17,18
A	12,25,26	7,12,14,15	11,12,13	9,10,11	15,16,17	14,15,16	13,14,15
S	1,23,24,30	6,13,14,20	15,16,17	20,21,22	19,20,21	18,19,20	17,18,19
O	22,23,24	10,11,12,13	1,2,3,9,10,11	18,19,20	17,18,19	16,17,18	15,16,17
N	14,21,22	4,10,11,18	17,18,19	15,16,17	14,15,16	13,14,15	19,20,21
D	13,16,21,22	10,11,13,17	14,15,16,17	13,14,15	19,20,21	18,19,20	17,18,19

	1964	1965	1966	1967	1968	1969	1970
J	14,15,16	12,13,14	11,12,13	17,18,19	16,17,18	14,15,16	13,14,15
F	18,19,20	16,17,18	15,16,17	14,15,16	13,14,15	11,12,13	10,11,12
M	17,18,19	16,17,18	15,16,17	14,15,16	12,13,14	18,19,20	10,11,12
A	14,15,16	20,21,22	12,13,14	11,12,13	16,17,18	15,16,17	14,15,16
M	19,20,21	18,19,20	17,18,19	9,10,11	14,15,16	13,14,15	12,13,14
J	16,17,18	15,16,17	14,15,16	13,14,15	11,12,13	17,18,19	16,17,18
J	14,15,16	20,21,22	12,13,14	18,19,20	16,17,18	15,16,17	14,15,16
A	18,19,20	17,18,19	16,17,18	15,16,17	13,14,15	12,13,14	18,19,20
S	22,23,24	14,15,16	13,14,15	19,20,21	17,18,19	9,10,11	15,16,17
O	20,21,22	19,20,21	11,12,13	17,18,19	15,16,17	14,15,16	13,14,15
N	17,18,19	16,17,18	15,16,17	14,15,16	12,13,14	18,19,20	17,18,19
D	15,16,17	14,15,16	13,14,15	12,13,14	17,18,19	16,17,18	15,16,17

	1971	1972	1973	1974	1975	1976	1977
J	12,13,14	18,19,20	16,17,18	15,16,17	14,15,16	20,21,22	18,19,20
F	9,10,11	15,16,17	13,14,15	12,13,14	11,12,13	17,18,19	15,16,17
M	16,17,18	14,15,16	20,21,22	19,20,21	11,12,13	16,17,18	15,16,17
A	13,14,15	18,19,20	17,18,19	16,17,18	15,16,17	13,14,15	19,20,21
M	11,12,13	16,17,18	15,16,17	14,15,16	13,14,15	18,19,20	17,18,19
J	15,16,17	13,14,15	19,20,21	18,19,20	10,11,12	22,23,24	14,15,16
J	20,21,22	11,12,13	17,18,19	16,17,18	15,16,17	13,14,15	19,20,21
A	17,18,19	15,16,17	14,15,16	13,14,15	12,13,14	10,11,12	16,17,18
S	14,15,16	19,20,21	18,19,20	17,18,19	16,17,18	21,22,23	13,14,15
O	19,20,21	17,18,19	16,17,18	15,16,17	14,15,16	19,20,21	11,12,13
N	16,17,18	14,15,16	13,14,15	12,13,14	11,12,13	16,17,18	15,16,17
D	14,15,16	19,20,21	18,19,20	10,11,12	16,17,18	21,22,23	6,7,8

	1978	1979	1980	1981	1982
J	17,18,19	16,17,18	15,16,17	13,14,15	19,20,21
F	7,8,9	13,14,15	12,13,14	17,18,19	16,17,18
M	7,8,9	20,21,22	18,19,20	17,18,19	16,17,18
A	11,12,13	17,18,19	15,16,17	14,15,16	20,21,22
M	9,10,11	22,23,24	13,14,15	12,13,14	18,19,20
J	6,7,8	19,20,21	10,11,12	9,10,11	15,16,17
J	11,12,13	17,18,19	8,9,10	14,15,16	13,14,15
A	15,16,17	21,22,23	12,13,14	11,12,13	17,18,19
S	5,6,7	18,19,20	9,10,11	15,16,17	14,15,16
O	17,18,19	16,17,18	7,8,9	13,14,15	19,20,21
N	14,15,16	20,21,22	11,12,13	17,18,19	16,17,18
D	12,13,14	18,19,20	9,10,11	15,16,17	14,15,16

NOTE: These are the dates related to the Symbol W in the main catalog, Section V.

UAG SERIES OF REPORTS

Fewer than four UAG Reports are published at irregular intervals each year. Copies of these publications may be purchased through World Data Center A for Solar-Terrestrial Physics, Environmental Data and Information Service, NOAA, D63, 325 Broadway, Boulder, Colorado 80303, USA. A $4.00 handling charge per order will be added to the single-copy prices listed below. Please note, too, that some reports are available on microfiche only. Orders must include check or money order payable in U.S. currency to the Department of Commerce, NOAA/NGDC.

UAG-1 "IQSY Night Airglow Data," by L.L. Smith, F.E. Roach, and J.M. McKennan, ESSA Aeronomy Laboratory, Boulder, CO, July 1968, 305 pp, $1.75.

UAG-2 "A Reevaluation of Solar Flares, 1964-1966," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan, Pontiac, MI, August 1968, 28 pp, $0.30.

UAG-3 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 6 July 1966 through 8 September 1968," by James W. Warwick and George A. Dulk, University of Colorado, Boulder, CO, October 1968, 35 pp, $0.55.

UAG-4 "Abbreviated Calendar Record 1966-1967," by J. Virginia Lincoln, Hope I. Leighton and Dorothy K. Kropp, ESSA now NOAA, Aeronomy and Space Data Center, Boulder, CO, January 1969, 170 pp, $1.25.

UAG-5 "Data on Solar Event of May 23, 1967 and its Geophysical Effects," compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, February 1969, 120 pp, $0.65.

UAG-6 "International Geophysical Calendars 1957-1969," by A.H. Shapley and J. Virginia Lincoln, ESSA Research Laboratories, now NOAA, Boulder, CO, March 1969, 25 pp, $0.30.

UAG-7 "Observations of the Solar Electron Corona: February 1964 - January 1968," by Richard T. Hansen, High Altitude Observatory, NCAR, Boulder, CO, and Kamuela, HI, October 1969, 12 pp, $0.15.

UAG-8 "Data on Solar-Geophysical Activity October 24 - November 6, 1968," Parts 1 and 2, compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, March 1970, 312 pp, $1.75 (includes Parts 1 and 2).

UAG-9 "Data on Cosmic Ray Event of November 18, 1968 and Associated Phenomena," compiled by J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, April 1970, 109 pp, $0.55.

UAG-10 "Atlas of Ionograms," edited by A.H. Shapley, ESSA Research Laboratories now NOAA, Boulder, CO, May 1970, 243 pp, $1.50.

UAG-12 "Solar-Geophysical Activity Associated with the Major Geomagnetic Storm of March 8, 1970," Parts 1, 2 and 3, compiled by J. Virginia Lincoln and Dale B. Bucknam, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, April 1971, 466 pp, $3.00 (includes Parts 1-3).

UAG-13 "Data on the Solar Proton Event of November 2, 1969 through the Geomagnetic Storm of November 8-10, 1969," compiled by Dale B. Bucknam and J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, ESSA now NOAA, Boulder, CO, May 1971, 76 pp, $0.90.

UAG-14 "An Experimental, Comprehensive Flare Index and Its Derivation for 'Major" Flares, 1955-1969," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan, Pontiac, MI, July 1971, 25 pp, $0.30.

UAG-16 "Temporal Development of the Geophysical Distribution of Auroral Absorption for 30 Substorm Events in each of IQSY (1964-65) and IASY (1960)," by F.T. Berkey, University of Alaska, Fairbanks, AK; V.M. Driatskiy, Arctic and Antarctic Research Institute, Leningrad, USSR; K. Henriksen, Auroral Observatory, Tromson, Norway; D.H. Jelly, Communications Research Center, Ottawa, Canada; T.I. Shchuka, Arctic and Antarctic Research Institute, Leningrad, USSR; A. Theander, Kiruna Geophysical Observatory, Kiruna, Sweden; and J. Yliniemi, University of Oulu, Oulu, Finland, September 1971, 131 pp, $0.70 (microfiche only).

UAG-17 "Ionospheric Drift Velocity Measurements at Jicamarca, Peru (July 1967 - March 1970)," by Ben B. Balsley, NOAA Aeronomy Laboratory, Boulder, CO, and Ronald F. Woodman, Jicamarca Radar Observatory, Instituto Geofisico del Peru, Lima, Peru, October 1971, 45 pp, $0.55 (microfiche only).

UAG-18 "A Study of Polar Cap and Auroral Zone Magnetic Variations," by K. Kawasaki and S.-I. Akasofu, University of Alaska, Fairbanks, AK, June 1972, 21 pp, $0.20.

UAG-19 "Reevaluation of Solar Flares 1967," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan, Pontiac, MI, and Marta Rovira de Miceli, San Miguel Observatory, Argentina, June 1972, 15 pp, $0.15.

UAG-21 "Preliminary Compilation of Data for Retrospective World Interval July 26 - August 14, 1972," by J. Virginia Lincoln and Hope I. Leighton, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, November 1972, 128 pp, $0.70.

UAG-22 "Auroral Electrojet Magnetic Activity Indices (AE) for 1970," by Joe Haskell Allen, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, November 1972, 146 pp, $0.75.

UAG-23 "U.R.S.I. Handbook of Ionogram Interpretation and Reduction," Second Edition, November 1972, edited by W.R. Piggott, Radio and Space Research Station, Slough, UK, and K. Rawer, Arbeitsgruppe fur Physikalische Weltraumforschung, Freiburg, GFR, November 1972, 324 pp, $1.75.

UAG-23A "U.R.S.I. Handbook of Ionogram Interpretation and Reduction," Second Edition, Revision of Chapters 1-4, edited by W.R. Piggott, Radio and Space Research Station, Slough, UK, and K. Rawer, Arbeitsgruppe fur Physikalische Weltraumforschung, Freiburg, GFR, November 1972, 135 pp, $2.14.

UAG-24 "Data on Solar-Geophysical Activity Associated with the Major Ground Level Cosmic Ray Events of 24 January and 1 September 1971," Parts 1 and 2, compiled by Helen E. Coffey and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, December 1972, 462 pp, $2.00 (includes Parts 1 and 2).

UAG-25 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 9 September 1968 through 9 December 1971," by James W. Warwick, George A. Dulk and David G. Swann, University of Colorado, Boulder, CO, February 1973, 35 pp, $0.35.

UAG-26 "Data Compilation for the Magnetospherically Quiet Periods February 19-23 and November 29 - December 3, 1970," compiled by Helen E. Coffey and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, May 1973, 129 pp, $0.70.

UAG-27 "High Speed Streams in the Solar Wind," by D.S. Intriligator, University of Southern California, Los Angeles, CA, June 1973, 16 pp, $0.15.

UAG-28 "Collected Data Reports on August 1972 Solar-Terrestrial Events," Parts 1, 2 and 3, edited by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, July 1973, 932 pp, $4.50.

UAG-29 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1968," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, October 1973, 148 pp, $0.75.

UAG-30 "Catalogue of Data on Solar-Terrestrial Physics," prepared by NOAA Environmental Data Service, Boulder, CO, October 1973, $1.50. Supersedes UAG-11, 15, and 20 catalogs.

UAG-31 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1969," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, February 1974, 142 pp, $0.75.

UAG-32 "Synoptic Radio Maps of the Sun at 3.3 mm for the Years 1967-1969," by Earle B. Mayfield, Kennon P. White III, and Fred I. Shimabukuro, Aerospace Corp., El Segundo, CA, April 1974, 26 pp, $0.35.

UAG-33 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1967," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, May 1974, 142 pp, $0.75.

UAG-34 "Absorption Data for the IGY/IGC and IQSY," compiled and edited by A.H. Shapley, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; W.R. Piggott, Appleton Laboratory, Slough, UK; and K. Rawer, Arbeitsgruppe fur Physikalische Weltraumforschung, Freiburg, GFR, June 1974, 381 pp, $2.00.

UAG-35 "Catalogue of Digital Geomagnetic Variation Data at World Data Center A for Solar-Terrestrial Physics," prepared by NOAA Environmental Data Service, Boulder, CO, July 1974, 20 pp, $0.20.

UAG-36 "An Atlas of Extreme Ultraviolet Flashes of Solar Flares Observed via Sudden Frequency Deviations During the ATM-SKYLAB Missions," by R.F. Donnelly and E.L. Berger, NOAA Space Environment Laboratory; Lt. J.D. Busman, NOAA Commissioned Corps; B. Henson, NASA Marshall Space Flight Center; T.B. Jones, University of Leicester, UK; G.M. Lerfald, NOAA Wave Propagation Laboratory; K. Najita, University of Hawaii; W.M. Retallack, NOAA Space Environment Laboratory and W.J. Wagner, Sacramento Peak Observatory, October 1974, 95 pp, $0.55.

UAG-37 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1966," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, December 1974, 142 pp, $0.75.

UAG-38 "Master Station List for Solar-Terrestrial Physics Data at WDC-A for Solar-Terrestrial Physics," by R.W. Buhmann, World Data Center A for Solar-Terrestrial Physics, Boulder, CO; Juan D. Roederer, University of Denver, Denver, CO; and M.A. Shea and D.F. Smart, Air Force Cambridge Research Laboratories, Hanscom AFB, MA, December 1974, 110 pp, $1.60.

UAG-39 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1971," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, February 1975, 144 pp, $2.05.

UAG-40 "H-Alpha Synoptic Charts of Solar Activity for the Period of Skylab Observations, May 1973 - March 1974," by Patrick S. McIntosh, NOAA Space Environment Laboratory, Boulder, CO, February 1975, 32 pp, $0.56.

UAG-41 "H-Alpha Synoptic Charts of Solar Activity During the First Year of Solar Cycle 20 October 1964 - August 1965," by Patrick S. McIntosh, NOAA Space Environment Laboratory, Boulder, CO and Jerome T. Nolte, American Science and Engineering, Inc., Cambridge, MA, March 1975, 25 pp, $0.48.

UAG-42 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-80 MHz, 10 December 1971 through 21 March 1975," by James W. Warwick, George A. Dulk and Anthony C. Riddle, University of Colorado, Boulder, CO, April 1975, 49 pp, $1.15.

UAG-43 "Catalog of Observation Times of Ground-Based Skylab-Coordinated Solar Observing Programs," compiled by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, May 1975, 159 pp, $3.00.

UAG-44 "Synoptic Maps of Solar 9.1 cm Microwave Emission from June 1962 to August 1973," by Werner Graf and Ronald N. Bracewell, Stanford University, Stanford, CA, May 1975, 183 pp, $2.55.

UAG-45 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1972," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, May 1975, 144 pp, $2.10 (microfiche only).

UAG-46 "Interplanetary Magnetic Field Data 1963-1964," by Joseph H. King, National Space Science Data Center, NASA Goddard Space Flight Center, Greenbelt, MD, June 1975, 382 pp, $1.95.

UAG-47 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1973," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, June 1975, 144 pp, $2.10 (microfiche only).

UAG-48A "Synoptic Observations of the Solar Corona during Carrington Rotations 1580-1596 (11 October 1971 - 15 January 1973)," [Reissue of UAG-48 with quality images], by R.A. Howard, M.J. Koomen, D.J. Michels, R. Tousey, C.R. Detwiler, D.E. Roberts, R.T. Seal, and J.D. Whitney, U.S. Naval Research Laboratory, Washington, DC, and R.T. Hansen and S.F. Hansen, C.J. Garcia and E. Yasukawa, High Altitude Observatory, NCAR, Boulder, CO, February 1976, 200 pp, $4.27.

UAG-49 "Catalog of Standard Geomagnetic Variation Data," prepared by NOAA Environmental Data Service, Boulder, CO, August 1975, 125 pp, $1.85.

UAG-50 "High-Latitude Supplement to the URSI Handbook on Ionogram Interpretation and Reduction," edited by W.R. Piggott, British Antarctic Survey, c/o Appleton Laboratory, Slough, UK, October 1975, 294 pp, $4.00.

UAG-51 "Synoptic Maps of Solar Coronal Hole Boundaries Derived from He II 304A Spectroheliograms from the Manned Skylab Missions," by J.D. Bohlin and D.M. Rubenstein, U.S. Naval Research Laboratory, Washington, DC, November 1975, 30 pp, $0.54.

UAG-52 "Experimental Comprehensive Solar Flare Indices for Certain Flares, 1970-1974," by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, University of Michigan Pontiac, MI, November 1975, 27 pp, $0.60.

UAG-53 "Description and Catalog of Ionospheric F-Region Data, Jicamarca Radio Observatory (November 1966 - April 1969), by W.L. Clark and T.E. Van Zandt, NOAA Aeronomy Laboratory, Boulder, CO, and J.P. McClure, University of Texas as Dallas, Dallas, TX, April 1976, 10 pp, $0.33.

UAG-54 "Catalog of Ionosphere Vertical Soundings Data," prepared by NOAA Environmental Data Service, Boulder, CO, April 1976, 130 pp, $2.10.

UAG-55 "Equivalent Ionospheric Current Representations by a New Method, Illustrated for 8-9 November 1969 Magnetic Disturbances," by Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO; H.W. Kroehl, Data Studies Division, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; M. Kanamitsu, Advanced Study Program, National Center for Atmospheric Research, Boulder, CO; Joe Haskell Allen, Data Studies Division, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; and S.-I Akasofu, Geophysical Institute, University of Alaska, Fairbanks, AK, April 1976, 91 pp, $1.60 (microfiche only).

UAG-56 "Iso-intensity Contours of Ground Magnetic H Perturbations for the December 16-18, 1971, Geomagnetic Storm," Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO, April 1976, 37 pp, $1.39.

UAG-57 "Manual on Ionospheric Absorption Measurements," edited by K. Rawer, Institut fur Physikalische Weltraumforschung, Freiburg, GFR, June 1976, 302 pp, $4.27.

UAG-58 "ATS6 Radio Beacon Electron Content Measurements at Boulder, July 1974 - May 1975," by R.B. Fritz, NOAA Space Environment Laboratory, Boulder, CO, September 1976, 61 pp, $1.04.

UAG-59 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1974," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, December 1976, 144 pp, $2.16.

UAG-60 "Geomagnetic Data for January 1976 (AE(7) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, July 1977, 57 pp, $1.07.

UAG-61 "Collected Data Reports for STIP Interval II 20 March - 5 May 1976, edited by Helen E. Coffey and John A. McKinnon, World Data Center A for Solar-Terrestrial Physics, Boulder, CO, August 1977, 313 pp, $2.95.

UAG-62 "Geomagnetic Data for February 1976 (AE(7) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, September 1977, 55 pp, $1.11.

UAG-63 "Geomagnetic Data for March 1976 (AE(7) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, September 1977, 57 pp, $1.11.

UAG-64 "Geomagnetic Data for April 1976 (AE(8) Indices and Stacked Magnetograms)," by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO, February 1978, 55 pp, $1.00.

UAG-65 "The Information Explosion and Its Consequences for Data Acquisition, Documentation, Processing," by G.K. Hartmann, Max-Planck-Institut fur Aeronomie, Lindau, GFR, May 1978, 36 pp, $0.75.

UAG-66 "Synoptic Radio Maps of the Sun at 3.3 mm 1970-1973," by Earle B. Mayfield and Fred I. Shimabukuro, Aerospace Corp., El Segundo, CA, May 1978, 30 pp, $0.75.

UAG-67 "Ionospheric D-Region Profile Data Base, A Collection of Computer-Accessible Experimental Profiles of the D and Lower E Regions," by L.F. McNamara, Ionospheric Prediction Service, Sydney, Australia, August 1978, 30 pp, $0.88 (microfiche only).

UAG-68 "A Comparative Study of Methods of Electron Density Profile Analysis," by L.F. McNamara, Ionospheric Prediction Service, Sydney, Australia, August 1978, 30 pp, $0.88 (microfiche only).

UAG-69 "Selected Disturbed D-Region Electron Density Profiles. Their relation to the undisturbed D region," by L.F. McNamara, Ionospheric Prediction Service, Sydney, Australia, October 1978, 50 pp, $1.29 (microfiche only).

UAG-70 "Annotated Atlas of the H-alpha Synoptic Charts for Solar Cycle 20 (1964-1974) Carrington Solar Rotations 1487-1616," by Patrick S. McIntosh, NOAA Space Environment Laboratory, Boulder, CO, February 1979, 327 pp, $3.50.

UAG-71 "Magnetic Potential Plots over the Northern Hemisphere for 26-28 March 1976," A.D. Richmond, NOAA Space Environment Laboratory, Boulder, CO; H.W. Kroehl, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; M.A. Henning, Lockheed Missils and Space Co., Aurora, CO; and Y. Kamide, Kyoto Sangyo University, Kyoto, Japan, April 1979, 118 pp, $1.50.

UAG-72 "Energy Release in Solar Flares, Proceedings of the Workshop on Energy Release in Flares, 26 February - 1 March 1979, Cambridge, Massachusetts, U.S.A.," edited by David M. Rust, American Science and Engineering, Inc., Cambridge, MA, and A. Gordon Emslie, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, July 1979, 68 pp, $1.50 (microfiche only).

UAG-73 "Auroral Electrojet Magnetic Activity Indices AE(11-12) for January - June 1975," by Joe Haskell Allen, Carl C. Abston, J.E. Salazar and J.A. McKinnon, National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, CO, August 1979, 114 pp, $1.75.

UAG-74 "ATS-6 Radio Beacon Electron Content Measurements at Ootacamund, India, October - July 1976," by S.D. Bouwer, K. Davies, R.F. Donnelly, R.N. Grubb, J.E. Jones and J.H. Taylor, NOAA Space Environment Laboratory, Boulder, CO, and R.G. Rastogi, M.R. Deshpande, H. Chandra and G. Sethia, Physical Research Laboratory, Ahmedabad, India, March 1980, 58 pp, $2.50.

UAG-75 "The Alaska IMS Meridian Chain: Magnetic Variations for 9 March - 27 April 1978," by H.W. Kroehl and G.P. Kosinski, National Geophysical and Solar-Terrestrial Data Center, Boulder, CO; S.-I Akasofu, G.J. Romick, C.E. Campbell and G.K. Corrick, University of Alaska, Fairbanks, AK; and C.E. Hornback and A.M. Gray, NOAA Space Environment Laboratory, Boulder, CO, June 1980, 107 pp, $3.00.

UAG-76 "Auroral Electrojet Magnetic Activity Indices AE(12) for July - December 1975," by Joe Haskell Allen, Carl C. Abston, J.E. Salazar and J.A. McKinnon, National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, CO, August 1980, 116 pp, $2.50.

UAG-77 "Synoptic Solar Magnetic Field Maps for the Interval Including Carrington Rotations 1601-1680, May 5, 1973 - April 26, 1979," by J. Harvey, B. Gillespie, P. Miedaner and C. Slaughter, Kitt Peak National Observatory, Tucson, AZ, August 1980, 66 pp, $2.50.

UAG-78 "The Equatorial Latitude of Auroral Activity During 1972-1977," by N.R. Sheeley, Jr. and R.A. Howard, E. O. Hulbert Center for Space Research, U.S. Naval Research Laboratory, Washington, DC and B.S. Dandekar, Air Force Geophysics Laboratory, Hanscom AFB, MA, October 1980, 61 pp, $3.00.

UAG-79 "Solar Observations During Skylab, April 1973 - February 1974, I. Coronal X-Ray Structure, II. Solar Flare Activity," by J.M. Hanson, University of Michigan, Ann Arbor, MI; and E.C. Roelof and R.E. Gold, The Johns Hopkins University, Laurel, MD, December 1980, 43 pp, $2.50.

UAG-80 "Experimental Comprehensive Solar Flare Indices for 'Major' and Certain Lesser Flares, 1975-1979," compiled by Helen W. Dodson and E. Ruth Hedeman, The Johns Hopkins University, Laurel, MD, July 1981, 33 pp, $2.00.

UAG-81 "Evolutionary Charts of Solar Activity (Calcium Plages) as Functions of Heliographic Longitude and Time, 1964-1979," by E. Ruth Hedeman, Helen W. Dodson and Edmond C. Roelof, The Johns Hopkins University, Laurel, MD 20707, August 1981, 103 pp, $4.00.

UAG-82 "International Reference Ionosphere - IRI 79," edited by J. Virginia Lincoln and Raymond O. Conkright, National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, CO, November 1981, 243 pp, $4.50.

UAG-83 "Solar-Geophysical Activity Reports for September 7-24, 1977 and November 22, 1977," Parts 1 and 2, compiled by John A. McKinnon and J. Virginia Lincoln, World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, CO, February 1982, 553 pp, $10.00.

UAG-84 "Catalog of Auroral Radio Absorption During 1967-1979 at Abisco, Sweden," by J.K. Hargreaves, C.M. Taylor and J.M. Penman, Environmental Sciences Department, University of Lancaster, Lancaster, UK, July 1982, 69 pp, $3.00.

UAG-85 "Catalog of Ionosphere Vertical Soundings Data," edited by Raymond O. Conkright and H. Irene Brophy, National Geophysical Data Center, NOAA, Boulder, CO, July 1982, 107 pp, $3.50.

☆U.S. GOVERNMENT PRINTING OFFICE:1982—576-028 / 2