JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 081 ISSUED AT 2200Z ON 22 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100Z TO 22/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7452 (S12W04) DEVELOPED A DELTA MAGNETIC STRUCTURE WITHIN ITS LEADER SPOTS AND PRODUCED SEVERAL C-CLASS SUBFLARES. REGION 7448 (N17W74) WAS STABLE AS IT APPROACHED THE WEST LIMB. A LARGE FILAMENT DEPARTED THE DISK LATE YESTERDAY. IT WAS APPROXIMATELY 30 DEGREES LONG AND WAS LAST SEEN NEAR S32E02. NEW REGION 7457 (N09W25) WAS NUMBERED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 7448 AND 7452 COULD PRODUCE ISOLATED M-CLASS FLARES.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO ACTIVE LEVELS FOR THE PAST 24 HOURS. MINOR TO SEVERE STORM LEVELS WERE OBSERVED AT SOME HIGH LATITUDE STATIONS FROM 22/0900-1500Z. THE ACTIVE TO STORM LEVELS PROBABLY OCCURRED IN RESPONSE TO CORONAL HOLE EFFECTS.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED BECOMING QUIET BY THE SECOND DAY.
III. EVENT PROBABILITIES 23 MAR-25 MAR
CLASS M 30/25/20
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 22 MAR 128
PREDICTED 23 MAR-25 MAR 130/125/120
90 DAY MEAN 22 MAR 134
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 21 MAR 022/023
ESTIMATED AFR/AP 22 MAR 018/020
PREDICTED AFR/AP 23 MAR-25 MAR 015/015-005/010-005/010
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 23 MAR-25 MAR
A. MIDDLE LATITUDES
ACTIVE 25/10/10
MINOR STORM 15/05/05
MAJOR-SEVERE STORM 05/01/01
B. HIGH LATITUDES
ACTIVE 30/15/15
MINOR STORM 20/10/10
MAJOR-SEVERE STORM 10/05/05