JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 077 ISSUED AT 2200Z ON 18 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z TO 18/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7448 (N17W22) CONTINUES AS THE MOST SIGNIFICANT GROUP ON THE DISK. THE REGION HAS EXPERIENCED RENEWED DEVELOPMENT AFTER SHOWING A SLOW DECLINE OF MOST PARAMETERS OVER THE PAST FEW DAYS. AN ISOLATED POLE HAS EMERGED IN THE SOUTHEAST PORTION OF THE REGION. THE SUNSPOT PENUMBRAL AREA HAS INCREASED AS WELL, FORMING A DELTA CONFIGURATION. THE REGION HAS PRODUCED ONLY SMALL FLARES SINCE YESTERDAY. NEW REGION 7453 (S06E65) WAS NUMBERED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. THE RENEWED DEVELOPMENT OF REGION 7448 MAY PRECIPITATE A MAJOR FLARE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE AT THE BEGINNING OF THE DAY, BECOMING MOSTLY QUIET AFTER 18/1500Z.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE NEXT DAY OR SO. AN INCREASE IN ACTIVITY MAY BEGIN LATE ON 20 MARCH DUE TO A CORONAL HOLE.
III. EVENT PROBABILITIES 19 MAR-21 MAR
CLASS M 30/20/10
CLASS X 05/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 18 MAR 127
PREDICTED 19 MAR-21 MAR 130/130/125
90 DAY MEAN 18 MAR 135
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 17 MAR 021/019
ESTIMATED AFR/AP 18 MAR 015/020
PREDICTED AFR/AP 19 MAR-21 MAR 015/015-020/015-020/025
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 19 MAR-21 MAR
A. MIDDLE LATITUDES
ACTIVE 15/20/20
MINOR STORM 10/20/20
MAJOR-SEVERE STORM 05/10/10
B. HIGH LATITUDES
ACTIVE 25/25/25
MINOR STORM 15/20/20
MAJOR-SEVERE STORM 05/15/15