JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 078 ISSUED AT 2200Z ON 19 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100Z TO 19/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7448 (N16W34) CONTINUES TO DEVELOP BUT AT A SLOWER RATE THAN DURING THE PREVIOUS DAY. THIS REGION CONTINUES TO PRODUCE SMALL C-CLASS FLARES. THE LARGEST SINCE YESTERDAY WAS A C3/SF AT 19/0020Z. REGION 7452 (S12E36) IS ALSO GROWING AND HAS ALSO PRODUCED SMALL FLARES. AN EPL NEAR S17W90 AT 19/1233Z WAS ASSOCIATED WITH A WEAK TYPE IV SWEEP. NEW REGION 7454 (S14E66) WAS NUMBERED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. AN ISOLATED MAJOR FLARE IS POSSIBLE IN REGION 7448. REGION 7452 MAY PRODUCE C-CLASS FLARES.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED. ACTIVE TO STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES FROM 19/09-18Z.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE NEXT SEVERAL HOURS, BECOMING UNSETTLED TO ACTIVE DUE TO A CORONAL HOLE. THE DISTURBANCE COULD START BY LATE TOMORROW AND LAST THROUGH 22 MARCH.
III. EVENT PROBABILITIES 20 MAR-22 MAR
CLASS M 30/20/10
CLASS X 05/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 19 MAR 135
PREDICTED 20 MAR-22 MAR 140/135/130
90 DAY MEAN 19 MAR 134
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 18 MAR 014/018
ESTIMATED AFR/AP 19 MAR 010/010
PREDICTED AFR/AP 20 MAR-22 MAR 020/020-020/025-020/020
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 20 MAR-22 MAR
A. MIDDLE LATITUDES
ACTIVE 20/20/20
MINOR STORM 20/20/20
MAJOR-SEVERE STORM 10/10/10
B. HIGH LATITUDES
ACTIVE 25/25/25
MINOR STORM 20/20/20
MAJOR-SEVERE STORM 15/15/15