JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 083 ISSUED AT 2200Z ON 24 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7448 (N16W99) PRODUCED A COUPLE C-CLASS SUBFLARES AS IT COMPLETED ITS PASSAGE TO THE FAR SIDE. REGION 7452 (S11W33) WAS STABLE AND MAY HAVE LOST THE DELTA MAGNETIC STRUCTURE THAT WAS VISIBLE IN ITS LEADER SPOTS. NEW REGION 7459 (N13W14) WAS NUMBERED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGIONS 7452 AND 7459 MAY PRODUCE C-CLASS SUBFLARES.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO MINOR STORM LEVELS FOLLOWING A SUDDEN IMPULSE OF 27 NANOTESLA RECORDED BY THE BOULDER USGS MAGNETOMETER AT 23/2156Z. HIGH LATITUDES RANGED FROM UNSETTLED TO SEVERE STORM LEVELS. THE FIELD SUBSIDED TO UNSETTLED TO ACTIVE LEVELS NEAR THE END OF THE SUMMARY PERIOD.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS TOMORROW. ACTIVE TO MINOR STORM LEVELS ARE EXPECTED FOR THE REMAINDER OF THE PERIOD DUE TO A LARGE FILAMENT WHICH DISAPPEARED LATE ON 21 MARCH.
III. EVENT PROBABILITIES 25 MAR-27 MAR
CLASS M 15/15/15
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 24 MAR 115
PREDICTED 25 MAR-27 MAR 115/115/120
90 DAY MEAN 24 MAR 133
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 23 MAR 012/008
ESTIMATED AFR/AP 24 MAR 035/048
PREDICTED AFR/AP 25 MAR-27 MAR 015/025-025/030-025/025
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 25 MAR-27 MAR
A. MIDDLE LATITUDES
ACTIVE 25/35/40
MINOR STORM 15/25/30
MAJOR-SEVERE STORM 05/10/15
B. HIGH LATITUDES
ACTIVE 25/30/30
MINOR STORM 15/40/40
MAJOR-SEVERE STORM 05/25/25