JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 061 ISSUED AT 2200Z ON 02 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100Z TO 02/2100Z: SOLAR ACTIVITY WAS MODERATE. A PRESENTLY UNCORRELATED M1 FLARE OCCURRED AT 02/2053UT. FOR NOW, WE WILL ATTRIBUTE THE FLARE TO NEW REGION 7440 (S05E81), WHICH DISPLAYED ENHANCED PLAGE AND A SURGE AT THE TIME OF THE FLARE. THIS REGION, JUST ROTATING ONTO THE DISK, PROMISES TO BE A WINNER. THIS REGION ALSO PRODUCED A C5/SF FLARE TODAY AT 02/1510UT. REGION 7435 (N07W00) CONTINUED TO GROW BUT PRODUCED ONLY A C4/1F AT 02/1822UT AND TWO SUB FAINT FLARES. REGION 7433 (N13W57) CONTINUED TO DECAY SLOWLY AND PRODUCED A C1/SF FLARE AT 02/1215UT. FOUR UNCORRELATED C1 FLARES WERE MEASURED AS WELL.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 7435 AND 7440 HAVE THE BEST CLASS C FLARE POTENTIAL. BOTH HAVE POTENTIAL FOR AN ISOLATED CLASS M FLARE ALSO.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO ACTIVE LEVELS FOR THE PAST 24 HOURS. HIGH LATITUDE STATIONS SAW PERIODS OF MINOR TO MAJOR STORM LEVELS.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED FOR THE NEXT 24 HOURS THEN QUIET TO UNSETTLED FOR THE REMAINDER OF THE FORECAST PERIOD.
III. EVENT PROBABILITIES 03 MAR-05 MAR
CLASS M 20/25/25
CLASS X 05/05/05
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 02 MAR 144
PREDICTED 03 MAR-05 MAR 155/160/165
90 DAY MEAN 02 MAR 134
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 01 MAR 015/016
ESTIMATED AFR/AP 02 MAR 018/018
PREDICTED AFR/AP 03 MAR-05 MAR 015/015-010/010-005/010
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 03 MAR-05 MAR
A. MIDDLE LATITUDES
ACTIVE 30/20/20
MINOR STORM 20/10/01
MAJOR-SEVERE STORM 05/05/01
B. HIGH LATITUDES
ACTIVE 35/20/15
MINOR STORM 25/10/10
MAJOR-SEVERE STORM 05/05/05