JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 011 ISSUED AT 2200Z ON 11 JAN 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z TO 11/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7394 (S17W58) PRODUCED A C3/SF LONG DURATION FLARE AT 1758Z. REGION 7399 (N06W12) CONTINUED ITS STEADY GROWTH. THIS REGION PROVED TO BE THE SOURCE OF TWO C-FLARES. A 22 DEGREE FILAMENT (N02E19) LIFTED OFF THE DISK OVERNIGHT.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGIONS 7394 AND 7399 ARE CAPABLE OF PRODUCING M-CLASS FLARES BUT CHANCES ARE CURRENTLY PLACED AT ONE IN TWENTY. OLD REGION 7376 (1 M-FLARE LAST ROTATION) IS EXPECTED TO RETURN BY DAY THREE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS FOR THE PAST 24 HOURS. MOST STATIONS WENT FROM QUIET TO MINOR STORM DURING THE 0900-1200Z PERIOD. SOME HIGH LATITUDE STATIONS REPORTED SEVERE STORM CONDITIONS AT 1200-1500Z. THE FIELD RETURNED TO UNSETTLED LEVELS AT MID-LATITUDES BY 2100Z.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE FIRST TWO DAYS. THE LONG DURATION EVENT MAY DISTURB THE FIELD TO ACTIVE LEVELS ON DAY THREE.
III. EVENT PROBABILITIES 12 JAN-14 JAN
CLASS M 05/05/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 11 JAN 132
PREDICTED 12 JAN-14 JAN 135/130/130
90 DAY MEAN 11 JAN 140
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 10 JAN 024/028
ESTIMATED AFR/AP 11 JAN 014/015
PREDICTED AFR/AP 12 JAN-14 JAN 010/010-010/010-015/015
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 12 JAN-14 JAN
A. MIDDLE LATITUDES
ACTIVE 20/20/30
MINOR STORM 10/10/15
MAJOR-SEVERE STORM 01/01/01
B. HIGH LATITUDES
ACTIVE 20/20/30
MINOR STORM 10/10/15
MAJOR-SEVERE STORM 01/01/01