JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 027 ISSUED AT 2200Z ON 27 JAN 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY WAS VERY LOW. NO OPTICAL FLARES WERE OBSERVED DURING THE PAST DAY. NEW REGIONS 7411 (S11W23) AND 7412 (S14E75) WERE NUMBERED. REGION 7411 IS EMERGING RAPIDLY, ALREADY FORMING PENUMBRA ON LEADER AND TRAILER SUNSPOTS. REGION 7412 MAY BE THE FIRST OF TWO OR MORE NEW REGIONS ROTATING INTO VIEW AT THE SOUTHEAST LIMB.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. FLARE ACTIVITY IS EXPECTED TO INCREASE OVER THE NEXT FEW DAYS DUE TO THE NEW REGIONS AT THE EAST LIMB AND THE DEVELOPMENT OF REGION 7411.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED AT MOST STATIONS. STORM CONDITIONS OCCURRED AT SOME HIGH-LATITUDE LOCATIONS FROM 26/0600-1200Z.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR MOST OF THE FORECAST PERIOD. ACTIVE CONDITIONS ARE POSSIBLE ON THE THIRD DAY DUE TO A RECURRENT DISTURBANCE.
III. EVENT PROBABILITIES 28 JAN-30 JAN
CLASS M 01/05/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 27 JAN 111
PREDICTED 28 JAN-30 JAN 115/120/120
90 DAY MEAN 27 JAN 137
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 26 JAN 017/019
ESTIMATED AFR/AP 27 JAN 010/011
PREDICTED AFR/AP 28 JAN-30 JAN 010/015-010/015-020/020
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 28 JAN-30 JAN
A. MIDDLE LATITUDES
ACTIVE 20/20/35
MINOR STORM 10/10/25
MAJOR-SEVERE STORM 01/01/01
B. HIGH LATITUDES
ACTIVE 25/20/20
MINOR STORM 30/10/25
MAJOR-SEVERE STORM 10/01/15