JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 360 ISSUED AT 2200Z ON 26 DEC 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100Z TO 26/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 7640 (N09W08) HAS BEEN A MOST PROLIFIC REGION, PRODUCING AN M1/1N FLARE AT 26/0412UT AND NO LESS THAN 15 C-CLASS FLARES RANGING FROM A C1/SF TO A C6/1F FLARE. A TYPE II RADIO BURST WAS DETECTED FROM THIS REGION AT 26/0728UT IN ASSOCIATION WITH A C4/1F FLARE. REGION 7640 CONTINUED, BUT SLOWED, ITS GROWTH AND REMAINS MAGNETICALLY COMPLEX. REGIONS 7641 (N04W08) AND 7643 (S18E41) SHOWED NO SIGNIFICANT DEVELOPMENT.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 7640 HAS A FAIR CHANCE FOR AN OCCASIONAL M-CLASS FLARE AND A SMALL CHANCE FOR AN ISOLATED X-CLASS FLARE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET LEVELS FOR THE PAST 24 HOURS.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD THEN ACTIVE AS A CORONAL HOLE ROTATES INTO A FAVORABLE POSITION. HIGH LATITUDE STATIONS COULD SEE MINOR TO MAJOR STORMING BY THE END OF THE FORECAST PERIOD.
III. EVENT PROBABILITIES 27 DEC-29 DEC
CLASS M 50/50/50
CLASS X 05/05/05
PROTON 05/05/05
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 26 DEC 125
PREDICTED 27 DEC-29 DEC 130/130/135
90 DAY MEAN 26 DEC 099
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 25 DEC 009/007
ESTIMATED AFR/AP 26 DEC 005/006
PREDICTED AFR/AP 27 DEC-29 DEC 010/010-015/015-025/025
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 27 DEC-29 DEC
A. MIDDLE LATITUDES
ACTIVE 15/20/30
MINOR STORM 05/10/25
MAJOR-SEVERE STORM 01/05/05
B. HIGH LATITUDES
ACTIVE 15/25/25
MINOR STORM 05/15/35
MAJOR-SEVERE STORM 01/05/10