JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 362 ISSUED AT 2200Z ON 28 DEC 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100Z TO 28/2100Z: SOLAR ACTIVITY WAS MODERATE BY VIRTUE OF A SINGLE M1/1N FLARE IN REGION 7640 (N09W39) AT 28/1659UT. THIS REGION PRODUCED ONLY THREE C-CLASS FLARES AND IS BEGINNING TO DECAY. REGION 7644 (N12W26) PRODUCED A SINGLE SMALL C-CLASS FLARE AND IS DECAYING AS WELL.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 7640 HAS A GOOD CHANCE OF AN OCCASIONAL M-CLASS FLARE AND AN OUTSIDE CHANCE OF AN ISOLATED X-CLASS FLARE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: 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 NEXT 12 TO 18 HOURS THEN UNSETTLED TO MINOR STORM FOR THE REMAINDER OF THE FORECAST PERIOD AS A LARGE CORONAL HOLE ROTATES INTO FAVORABLE POSITION. HIGH LATITUDE STATIONS COULD SEE MAJOR TO SEVERE STORM LEVELS.
III. EVENT PROBABILITIES 29 DEC-31 DEC
CLASS M 50/50/50
CLASS X 05/05/05
PROTON 05/05/05
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 28 DEC 134
PREDICTED 29 DEC-31 DEC 135/135/130
90 DAY MEAN 28 DEC 099
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 27 DEC 004/005
ESTIMATED AFR/AP 28 DEC 002/004
PREDICTED AFR/AP 29 DEC-31 DEC 025/025-030/035-020/020
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 29 DEC-31 DEC
A. MIDDLE LATITUDES
ACTIVE 30/30/30
MINOR STORM 25/25/25
MAJOR-SEVERE STORM 05/10/05
B. HIGH LATITUDES
ACTIVE 30/30/30
MINOR STORM 30/30/30
MAJOR-SEVERE STORM 10/15/10