JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 359 ISSUED AT 2200Z ON 25 DEC 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z TO 25/2100Z: SOLAR ACTIVITY WAS MODERATE THE PAST 24 HOURS. REGION 7640 (N09E08) PRODUCED AN M1/SN FLARE AT 1756Z AS WELL AS NUMEROUS C-CLASS FLARES DURING THIS PERIOD. THE REGION CONTINUES TO GROW IN WHITE LIGHT WHILE EXHIBITING INCREASING INVERSION LINE COMPLEXITY. ALL OTHER REGIONS ARE STABLE.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. WITH RGN 7640 NOW SHOWING A POSSIBLE DELTA CONFIGURATION IN THE MAIN LEADER GROUP, M-CLASS FLARING POTENTIAL REMAINS HIGH.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MOSTLY QUIET LEVELS IN THE MID LATITUDES WITH SOME ACTIVE PERIODS EXPERIENCED AT HIGHER LATITUDES.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT MOSTLY QUIET LEVELS FOR THE NEXT 24 HRS.
III. EVENT PROBABILITIES 26 DEC-28 DEC
CLASS M 65/70/70
CLASS X 10/10/10
PROTON 05/05/05
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 25 DEC 119
PREDICTED 26 DEC-28 DEC 124/130/135
90 DAY MEAN 25 DEC 099
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 24 DEC 008/008
ESTIMATED AFR/AP 25 DEC 008/008
PREDICTED AFR/AP 26 DEC-28 DEC 005/007-010/010-005/015
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 26 DEC-28 DEC
A. MIDDLE LATITUDES
ACTIVE 10/15/15
MINOR STORM 05/05/10
MAJOR-SEVERE STORM 01/01/01
B. HIGH LATITUDES
ACTIVE 10/15/25
MINOR STORM 05/10/15
MAJOR-SEVERE STORM 01/01/05