JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 335 ISSUED AT 2200Z ON 01 DEC 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z TO 01/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7624 (N04W28) WAS RESPONSIBLE FOR THREE C-CLASS FLARES INCLUDING THE LARGEST OF THE PERIOD, A C5/1N AT 01/0419UT. THIS REGION GREW RAPIDLY AND ALSO PRODUCED A NUMBER OF B-CLASS AND SUBFAINT FLARES THROUGH THE PERIOD. REGION 7627 (S07E57) IS ALSO GROWING AT A GOOD PACE AND PRODUCED A SINGLE C3/SF FLARE AT 01/0705UT.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 7624 AND 7627 BOTH HAVE GOOD POTENTIAL FOR C-CLASS FLARING AND AN OUTSIDE CHANCE OF PRODUCING AN ISOLATED M-CLASS FLARE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO ACTIVE LEVELS FOR THE PAST 24 HOURS AT MIDDLE LATITUDES. HIGH LATITUDE STATIONS SAW MINOR TO SEVERE STORMING DURING THE LAST HALF OF THE PERIOD. THE ACTIVITY IS MOST LIKELY THE RESULT OF A WELL POSITIONED CORONAL HOLE.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO MINOR STORM AT MIDDLE LATITUDES AND MINOR TO SEVERE STORM LEVELS AT HIGH LATITUDES FOR THE NEXT 24 HOURS. ACTIVITY IS THEN EXPECTED TO BE MOSTLY UNSETTLED TO ACTIVE FOR THE REMAINDER OF THE FORECAST PERIOD.
III. EVENT PROBABILITIES 02 DEC-04 DEC
CLASS M 15/15/15
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 01 DEC 109
PREDICTED 02 DEC-04 DEC 110/110/105
90 DAY MEAN 01 DEC 095
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 30 NOV 002/004
ESTIMATED AFR/AP 01 DEC 018/020
PREDICTED AFR/AP 02 DEC-04 DEC 030/040-025/025-020/020
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 02 DEC-04 DEC
A. MIDDLE LATITUDES
ACTIVE 15/20/30
MINOR STORM 30/20/20
MAJOR-SEVERE STORM 20/20/20
B. HIGH LATITUDES
ACTIVE 20/20/30
MINOR STORM 20/15/15
MAJOR-SEVERE STORM 45/25/25