JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 365 ISSUED AT 2200Z ON 31 DEC 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z TO 31/2100Z: SOLAR ACTIVITY WAS LOW. INTERMITTENT C-CLASS ACTIVITY WAS THE ORDER OF THE DAY, WITH THE BRUNT OF THE FLARES ORIGINATING IN OR NEAR THE REGION 7640 (N08W80) COMPLEX. REPORTS CHARACTERIZE THIS AREA AS BEING LARGELY STABLE. REGION 7645 (N11E43) IN THE OPPOSITE HEMISPHERE HAD ONLY A FEW SMALL FLARES, BUT REMAINS COMPLEX MAGNETICALLY. ONE NEW REGION WAS BORN ON THE DISK, 7647 (S15E34).
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 7640 AND 7645 HOLD THE BEST PROMISE OF AN ISOLATED M-CLASS EVENT.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: THE GEOMAGNETIC FIELD WAS QUIET EARLY IN THE PERIOD, THEN EXPERIENCED MINOR TO MAJOR STORM CONDITIONS AT THE MIDWAY POINT. THIS DISTURBANCE, THOUGHT TO BE RELATED TO A WESTERN HEMISPHERE CORONAL HOLE, NOW SEEMS TO BE WEAKENING.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE PREDOMINANTLY UNSETTLED, WITH EPISODES OF ACTIVE CONDITIONS LIKELY DURING LOCAL NIGHTTIMES.
III. EVENT PROBABILITIES 01 JAN-03 JAN
CLASS M 50/50/50
CLASS X 05/05/05
PROTON 05/05/05
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 31 DEC 141
PREDICTED 01 JAN-03 JAN 140/135/130
90 DAY MEAN 31 DEC 100
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 30 DEC 004/004
ESTIMATED AFR/AP 31 DEC 023/020
PREDICTED AFR/AP 01 JAN-03 JAN 010/015-010/012-010/012
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 01 JAN-03 JAN
A. MIDDLE LATITUDES
ACTIVE 25/15/20
MINOR STORM 25/05/10
MAJOR-SEVERE STORM 05/01/01
B. HIGH LATITUDES
ACTIVE 30/15/15
MINOR STORM 30/05/25
MAJOR-SEVERE STORM 15/01/01