JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 002 ISSUED AT 2200Z ON 02 JAN 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100Z TO 02/2100Z: SOLAR ACTIVITY WAS MODERATE. AN M1 X-RAY BURST OCCURRED AT 02/0436Z. AN OPTICAL FLARE WAS NOT OBSERVED; HOWEVER, A BRIGHT SURGE (BSL) OVER THE NORTHWEST LIMB SUGGESTS THAT DEPARTED REGION 7376 MAY HAVE BEEN THE SOURCE, AT THAT TIME A LITTLE OVER A DAY BEHIND THE LIMB. DISK REGIONS HAVE BEEN QUIET. NEW REGIONS 7388 (S08W30) AND 7389 (S17E73) WERE NUMBERED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED AT ALL STATIONS UNTIL ABOUT 02/0900Z. AFTER THAT THE FIELD WAS MOSTLY UNSETTLED AT MIDDLE LATITUDES AND ACTIVE TO STORM AT HIGH LATITUDES.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED AT MIDDLE LATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES.
III. EVENT PROBABILITIES 03 JAN-05 JAN
CLASS M 05/05/05
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 02 JAN 121
PREDICTED 03 JAN-05 JAN 120/120/125
90 DAY MEAN 02 JAN 139
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 01 JAN 012/008
ESTIMATED AFR/AP 02 JAN 012/015
PREDICTED AFR/AP 03 JAN-05 JAN 015/015-015/018-015/018
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 03 JAN-05 JAN
A. MIDDLE LATITUDES
ACTIVE 40/40/40
MINOR STORM 10/10/10
MAJOR-SEVERE STORM 01/01/01
B. HIGH LATITUDES
ACTIVE 60/60/60
MINOR STORM 20/20/20
MAJOR-SEVERE STORM 10/10/10