JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 013 ISSUED AT 2200Z ON 13 JAN 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7386 (S04W92) LET LOOSE WITH A SURPRISE C9/1F FLARE AT 13/0259Z AS IT CROSSED THE WEST LIMB. THE FLARE HAD AN ASSOCIATED TYPE II SWEEP AND LOOPS WITH IT. REGION 7400 (S09W16), A RAPIDLY EMERGING REGION, HAD THE ONLY OTHER SIGNIFICANT FLARE ACTIVITY, A C3/SF FLARE AT 13/0909Z. REGIONS 7401 (S11E73) AND 7402 (S26E68) WERE ASSIGNED TODAY.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGIONS 7400 AND 7399 (N07W38) HAVE THE BEST C-CLASS ACTIVITY POTENTIAL. BOTH ALSO HAVE AN OUTSIDE CHANCE OF PRODUCING AN ISOLATED M-CLASS EVENT. REGION 7394 STILL HAS A CHANCE OF PRODUCING AN ISOLATED C-CLASS FLARE BEFORE IT ROTATES OFF THE DISK.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MOSTLY QUIET LEVELS FOR THE PAST 24 HOURS. HIGH LATITUDE STATIONS SAW A PERIOD OF ACTIVE TO MINOR STORM LEVELS FROM 13/1500 TO 13/1800Z.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD THEN UNSETTLED TO ACTIVE OWING TO AN LDE ON THE ELEVENTH AND A PAIR OF DSF'S ON THE TWELFTH.
III. EVENT PROBABILITIES 14 JAN-16 JAN
CLASS M 15/15/15
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 13 JAN 141
PREDICTED 14 JAN-16 JAN 145/140/140
90 DAY MEAN 13 JAN 141
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 12 JAN 010/010
ESTIMATED AFR/AP 13 JAN 008/008
PREDICTED AFR/AP 14 JAN-16 JAN 010/010-010/010-015/015
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 14 JAN-16 JAN
A. MIDDLE LATITUDES
ACTIVE 20/20/30
MINOR STORM 05/05/10
MAJOR-SEVERE STORM 01/01/05
B. HIGH LATITUDES
ACTIVE 25/25/35
MINOR STORM 10/10/10
MAJOR-SEVERE STORM 01/05/10