JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 089 ISSUED AT 2200Z ON 30 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100Z TO 30/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 7461 (N05E16) PRODUCED AN M2/1B TENFLARE WITH AN ASSOCIATED TYPE II SWEEP AT 30/0105UT, A C3/SF FLARE AT 30/1256UT AND TWO SUB FAINT FLARES. THIS REGION APPEARS TO BE DECAYING WHILE INCREASING IN COMPACTNESS. REGION 7463 (S13E36) PRODUCED A C1/SF FLARE AT 30/0332UT, TWO SMALL CLASS B FLARES AND A SUB FAINT FLARE. IT SHOWED LITTLE CHANGE. REGION 7465 (S05E77) HAS GROWN QUICKLY BUT REMAINS GENERALLY UNEXCITING SO FAR.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO OCCASIONALLY MODERATE. REGION 7461 STILL HAS SOME CLASS M FLARE POTENTIAL AND AN OUTSIDE CHANCE OF PRODUCING AN ISOLATED CLASS X FLARE. REGIONS 7463 AND 7465 BOTH HAVE POTENTIAL FOR CLASS C ACTIVITY.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED FOR THE PAST 24 HOURS. ALL STATIONS SAW A SHORT PERIOD OF ACTIVE TO MINOR STORM LEVELS BETWEEN 1500 AND 1800 UT TODAY.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE ENTIRE PERIOD.
III. EVENT PROBABILITIES 31 MAR-02 APR
CLASS M 20/20/20
CLASS X 05/05/05
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 30 MAR 129
PREDICTED 31 MAR-02 APR 135/145/150
90 DAY MEAN 30 MAR 133
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 29 MAR 014/018
ESTIMATED AFR/AP 30 MAR 014/015
PREDICTED AFR/AP 31 MAR-02 APR 015/015-010/010-010/010
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 31 MAR-02 APR
A. MIDDLE LATITUDES
ACTIVE 25/20/20
MINOR STORM 15/10/10
MAJOR-SEVERE STORM 05/05/05
B. HIGH LATITUDES
ACTIVE 25/20/20
MINOR STORM 15/10/10
MAJOR-SEVERE STORM 05/05/05