JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 073 ISSUED AT 2200Z ON 14 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100Z TO 14/2100Z: SOLAR ACTIVITY WAS LOW. ONLY TWO LOW LEVEL C-CLASS FLARES OCCURRED DURING THE PERIOD. REGIONS 7440 (S06W80) AND 7448 (N16E27) PRODUCED ALL OF TODAY'S SCANT ACTIVITY. BOTH GROUPS APPEARED TO BE IN SLOW DECLINE, ALTHOUGH THE LIMB PROX-IMITY OF 7440 MADE MEASUREMENTS DIFFICULT. SOME SMALL, NEW FLUX REGIONS APPEARED TO BE FORMING ON THE DISK TOWARD THE END OF THE DAY.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. AN ISOLATED M-CLASS EVENT FROM EITHER OF REGION 7440 OR 7448 IS STILL CONSIDERED A POSSIBILITY AS BOTH REGIONS RE-TAIN MAGNETIC COMPLEXITY AND STRENGTH. A DOWNWARD TREND IN ACTIVITY LEVELS IS EXPECTED DUE TO THE DEPARTURE OF REGION 7440.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. SOME BRIEF MINOR STORM PERIODS OCCURRED AT HIGH LATITUDES. THERE WAS NO COMPELLING EVIDENCE FOR ARRIVAL OF A SHOCK OR AN INCREASE IN GEOMAGNETIC ACTIVITY LEVELS DUE TO THE LONG DURATION M7 FLARE OF 12 MARCH.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS FOR THE NEXT 24 HOURS AS EFFECTS FROM THE 12 MARCH LDE ARE STILL POSSIBLE. A GRADUAL DECLINE TO UNSETTLED TO ACTIVE IS EXPECTED BY DAY TWO AND A RETURN TO GENERALLY UNSETTLED LEVELS IS EXPECTED BY DAY THREE.
III. EVENT PROBABILITIES 15 MAR-17 MAR
CLASS M 65/60/35
CLASS X 15/10/05
PROTON 10/05/05
PCAF YELLOW
IV. PENTICTON 10.7 CM FLUX
OBSERVED 14 MAR 136
PREDICTED 15 MAR-17 MAR 130/130/135
90 DAY MEAN 14 MAR 136
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 13 MAR 020/024
ESTIMATED AFR/AP 14 MAR 020/015
PREDICTED AFR/AP 15 MAR-17 MAR 035/025-015/020-010/015
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 15 MAR-17 MAR
A. MIDDLE LATITUDES
ACTIVE 10/25/25
MINOR STORM 55/10/10
MAJOR-SEVERE STORM 30/05/05
B. HIGH LATITUDES
ACTIVE 05/30/30
MINOR STORM 55/10/10
MAJOR-SEVERE STORM 40/05/05