JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 075 ISSUED AT 2200Z ON 16 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z TO 16/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 7440 PRODUCED THE LARGEST FLARE SINCE YESTERDAY. NO OPTICAL CLASSIFICATION WAS POSSIBLE, SINCE IT OCCURRED FROM BEYOND THE WEST LIMB, BUT POST FLARE LOOPS WERE OBSERVED AT S02W90. THIS FLARE REACHED AN X-RAY MAXIMUM OF M2 AT 15/2135Z. REGION 7448 (N17W00) IS THE LARGEST REGION PRESENTLY ON THE DISK AND PRODUCED A FEW SUBFLARES DURING THE PAST DAY. THE LARGEST WAS A C5/SN AT 16/0247Z. NEW REGIONS 7451 (S19E65) AND 7452 (S14E73) WERE NUMBERED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. THE LIKELIHOOD OF MAJOR FLARES HAS DECREASED WITH THE DEPARTURE OF REGION 7440.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD WAS AT ACTIVE TO MINOR STORM LEVELS. THE CONTINUATION OF THIS DISTURBANCE, WHICH BEGAN AT 15/0526Z IN RESPONSE TO THE M7 FLARE ON 12 MARCH, MAY BE DUE TO A WELL POSITIONED CORONAL HOLE.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.
III. EVENT PROBABILITIES 17 MAR-19 MAR
CLASS M 20/20/20
CLASS X 05/05/05
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 16 MAR 122
PREDICTED 17 MAR-19 MAR 125/120/120
90 DAY MEAN 16 MAR 135
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 15 MAR 035/054
ESTIMATED AFR/AP 16 MAR 022/028
PREDICTED AFR/AP 17 MAR-19 MAR 015/015-015/025-015/015
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 17 MAR-19 MAR
A. MIDDLE LATITUDES
ACTIVE 15/15/15
MINOR STORM 10/10/10
MAJOR-SEVERE STORM 05/05/05
B. HIGH LATITUDES
ACTIVE 25/25/25
MINOR STORM 15/15/15
MAJOR-SEVERE STORM 05/05/05