JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 066 ISSUED AT 2200Z ON 07 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100Z TO 07/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7440 (S07E14), STILL MAGNETICALLY COMPLEX AND BRIGHT, HAS BEEN OMINOUSLY QUIET SINCE ITS MAJOR FLARE OF A DAY AGO. FINAL REPORTS OF THE TYPE IV ASSOCIATED WITH THE M7/3B FLARE OF 06/2049Z HAD IT LASTING NEARLY 14 HOURS. THE LARGEST EVENT REGION 7440 COULD MUSTER TODAY WAS A C3/0F AT 1309Z. NONETHELESS, THE REGION WARRANTS SERIOUS CONSIDERATION. ELSEWHERE, LITTLE OF SIGNIFICANCE WAS REPORTED.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 7440 IS LIKELY TO YIELD ANOTHER M-CLASS OR LARGER FLARE IN THE NEXT FEW DAYS.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET TO UNSETTLED. THE GREATER THAN 10 MEV PROTON FLUXES ATTAINED NEAR-EVENT CRITERIA, FOLLOWING THE M7/3B FLARE AT 06/2049Z. THE FLUXES REGISTERED A SINGLE MAXIMUM OF 11 PFU AT 07/0710Z, AS OPPOSED TO THE REQUIRED THREE CONSECUTIVE 5-MINUTE VALUES OF 10 PFU OR MORE. THE PROTON FLUXES ARE STILL ELEVATED, MEASURING JUST LESS THAN 3 PFU NOW.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS THE NEXT THREE DAYS. THE BRUNT OF THE ACTIVITY SHOULD OCCUR ON 09 MARCH WHEN EFFECTS FROM THE M7/3B FLARE LATE ON 06 MARCH ARE DUE. PERIODS OF MAJOR TO SEVERE STORMING MAY EVENTUATE AT THAT TIME. THE DISTURBANCE SHOULD SLOWLY WEAKEN BY THE END OF THE INTERVAL.
III. EVENT PROBABILITIES 08 MAR-10 MAR
CLASS M 60/60/60
CLASS X 15/15/15
PROTON 25/25/25
PCAF YELLOW
IV. PENTICTON 10.7 CM FLUX
OBSERVED 07 MAR 153
PREDICTED 08 MAR-10 MAR 150/150/145
90 DAY MEAN 07 MAR 136
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 06 MAR 007/009
ESTIMATED AFR/AP 07 MAR 018/010
PREDICTED AFR/AP 08 MAR-10 MAR 020/030-035/040-025/025
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 08 MAR-10 MAR
A. MIDDLE LATITUDES
ACTIVE 20/10/20
MINOR STORM 30/55/30
MAJOR-SEVERE STORM 25/30/25
B. HIGH LATITUDES
ACTIVE 15/15/20
MINOR STORM 30/30/25
MAJOR-SEVERE STORM 30/35/30