JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 065 ISSUED AT 2200Z ON 06 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100Z TO 06/2100Z: SOLAR ACTIVITY WAS HIGH. REGION 7440 (S07E27) PRODUCED AN M7/3B TENFLARE WITH ASSOCIATED TYPE II AT 2049Z. THE EVENT IS STILL IN PROGRESS AT THIS WRITING. EARLIER TODAY CLOUDS PREVENTED OBSERVATION OF THE SOURCE OF AN M3 AT 1038Z. THIS FLARE IS LIKELY ASSOCIATED WITH REGION 7440, EASILY THE MOST IMPRESSIVE ON THE DISK. IT SHOWS TWO DELTA CONFIGURATIONS, BOTH IN THE EASTERNMOST TRAILER SPOTS, AS WELL AS A LARGE FIELD OF BRIGHT PLAGE. THE OTHER FIVE SPOTTED REGIONS HAVE BEEN SIMPLE AND MOSTLY QUIET.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 7440 SHOULD CONTINUE ITS M-CLASS ACTIVITY OVER THE NEXT THREE DAYS.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT PREDOMINANTLY MINOR STORM LEVELS THE NEXT 48 HOURS. EFFECTS OF A DISAPPEARING FILAMENT ON 2-3 MARCH AS WELL AS A FAVORABLY-POSITIONED CORONAL HOLE ARE DUE ANY TIME. UNSETTLED TO ACTIVE CONDITIONS SHOULD PREVAIL AT THE END OF THE INTERVAL.
III. EVENT PROBABILITIES 07 MAR-09 MAR
CLASS M 60/60/60
CLASS X 10/10/10
PROTON 10/10/10
PCAF YELLOW
IV. PENTICTON 10.7 CM FLUX
OBSERVED 06 MAR 167
PREDICTED 07 MAR-09 MAR 175/180/185
90 DAY MEAN 06 MAR 136
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 05 MAR 007/006
ESTIMATED AFR/AP 06 MAR 007/008
PREDICTED AFR/AP 07 MAR-09 MAR 035/003-035/003-015/003
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 07 MAR-09 MAR
A. MIDDLE LATITUDES
ACTIVE 15/40/35
MINOR STORM 25/25/35
MAJOR-SEVERE STORM 30/25/01
B. HIGH LATITUDES
ACTIVE 10/20/40
MINOR STORM 30/25/25
MAJOR-SEVERE STORM 50/30/05