JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 064 ISSUED AT 2200Z ON 05 MAR 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100Z TO 05/2100Z: SOLAR ACTIVITY WAS LOW. REGION 7441 (N08E48), A RAPIDLY GROWING DAO GROUP, PRODUCED THE SECOND LARGEST FLARE OF THE PERIOD, A C4/1F AT 05/0046UT. REGION 7435 (N09W41), SLOWLY DECAYING, PRODUCED THE ONLY OTHER CORRELATED CLASS C FLARE, A C1/SF AT 05/0646UT. THE LARGEST EVENT TODAY WAS AN UNCORRELATED C5 AT 05/1126UT. THERE WERE TWO OTHER SMALLER, UNCORRELATED CLASS C EVENTS AS WELL. REGION 7440 (S07E40), AN IMPRESSIVE DKC BETA-GAMMA-DELTA SPOT GROUP, HAS ONLY PRODUCED SUB FLARES SO FAR. REGIONS 7443 AND 7444 WERE NUMBERED TODAY.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 7440 HAS A STRONG POTENTIAL FOR CLASS C FLARES, ISOLATED CLASS M FLARES AND AN OUTSIDE CHANCE FOR A CLASS X FLARE. REGIONS 7441 AND 7435 HAVE GOOD CLASS C FLARE POTENTIAL AND AN OUTSIDE CHANCE FOR AN ISOLATED CLASS M FLARE.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MOSTLY QUIET LEVELS FOR THE PAST 24 HOURS. YESTERDAY'S PROTON EVENT ENDED AT 04/2000UT WITH A MAXIMUM OF 17 PFU AT GREATER THAN 10 MEV.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT 24 HOURS. MINOR STORM CONDITIONS ARE EXPECTED FOR THE LAST TWO DAYS OF THE FORECAST PERIOD AS A RESULT OF FILAMENT AND FLARE ACTIVITY COUPLED WITH A FAVORABLY POSTIONED CORONAL HOLE. HIGH LATITUDE STATIONS WILL SEE MAJOR, POSSIBLY SEVERE, STORM LEVELS.
III. EVENT PROBABILITIES 06 MAR-08 MAR
CLASS M 30/30/30
CLASS X 10/10/05
PROTON 05/05/01
PCAF YELLOW
IV. PENTICTON 10.7 CM FLUX
OBSERVED 05 MAR 165
PREDICTED 06 MAR-08 MAR 170/175/175
90 DAY MEAN 05 MAR 135
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 04 MAR 020/021
ESTIMATED AFR/AP 05 MAR 009/008
PREDICTED AFR/AP 06 MAR-08 MAR 025/030-035/040-045/050
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 06 MAR-08 MAR
A. MIDDLE LATITUDES
ACTIVE 20/10/10
MINOR STORM 30/45/45
MAJOR-SEVERE STORM 20/35/40
B. HIGH LATITUDES
ACTIVE 20/10/10
MINOR STORM 35/30/30
MAJOR-SEVERE STORM 25/50/55