

HFUS 1 ROU 071300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 038A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 07 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 07/1200Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY SMALL SUBFLARES HAVE BEEN OBSERVED. REGION 4077(S16W61) CONTINUES TO DECAY VERY SLOWLY AND HAS BEEN UNPRODUCTIVE THIS PERIOD. IT REMAINS A D CLASS SPOT GROUP AND A DELTA IS STILL REPORTED. THE REGION APPEARS STILL CAPABLE OF MAJOR ACTIVITY. REGION 4079(S17W17) IS AN E CLASS SPOT GROUP BUT APPEARS STABLE AND MAGNETICALLY SIMPLE AND MAY BE marginally CAPABLE OF M LEVEL EVENTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW BUT ISOLATED M CLASS EVENTS MAY OCCUR INFREQUENTLY DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS RETURNED TO MAJOR STORM LEVEL AFTER A DECLINE TO ACTIVE LEVEL BRIEFLY EARLY ON 7 FEB. THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT STORM LEVEL INTERMITTENTLY DURING THE FIRST PART OF THE FORECAST PERIOD AND DECLINING RAPIDLY TO UNSETTLED LEVEL LATE IN THE FORECAST PERIOD.

III. EVENT PROBABILITIES 08 FEB-10 FEB

CLASS M 70/50/50

CLASS X 10/05/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 FEB 157

ESTIMATED 07 FEB 150

PREDICTED 08 FEB-10 FEB 145/135/128

90 DAY MEAN 06 FEB 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 FEB 084 AP 06 FEB 047

ESTIMATED AFR 06 FEB 050 AFR/AP 07 FEB 030/040

PREDICTED AFR/AP 08 FEB-10 FEB 015/015-025/025-015/010

SOLTERWARN

BT

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 038B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 07 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
07/1200Z TO 07/2100Z: SOLAR ACTIVITY REMAINS LOW. REGIONS 4077
(S17W69) AND 4081 (S10W12) PRODUCED THE ONLY ACTIVITY OBSERVED
DURING THE PERIOD WITH ONE SUB-FAINT FLARE EACH. REGION 4077
CONTINUES TO DECAY SLOWLY, BUT MAINTAINS A WEAK MAGNETIC DELTA
CONFIGURATION. REGION 4081 HAS DISPLAYED MINOR GROWTH BUT STILL
REMAINS A MAGNETICALLY SIMPLE GROUP. REGION 4079 (S18W24), THE
SECOND MOST COMPLEX DISK REGION WITH A BETA-GAMMA
CONFIGURATION, IS QUIET AND LITTLE CHANGED. NO NEW REGIONS WERE
NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW, HOWEVER, AN ISOLATED M-CLASS EVENT IS POSSIBLE FROM
EITHER REGION 4077 (PRIOR TO LIMB TRANSIT) OR REGION 4079.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
AT MINOR STORM LEVELS DURING THE FIRST PART OF THE PERIOD, BUT
HAS SHOWN SIGNS OF SETTling DURING THE LAST PART OF THE PERIOD.
EXPECT THE MINOR STORM CONDITIONS OBSERVED DURING THE PAST 24
HOURS TO GRADUALLY DECREASE TO ACTIVE LEVELS DURING THE NEXT 12
HOURS. ACTIVE CONDITIONS SHOULD THEN CONTINUE FOR THE DURATION
OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 08 FEB-10 FEB

CLASS M 70/50/50

CLASS X 10/05/05

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 FEB 146

PREDICTED 08 FEB-10 FEB 135/128/120

90 DAY MEAN 07 FEB 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 FEB 047/047

ESTIMATED AFR/AP 07 FEB 040/040

PREDICTED AFR/AP 08 FEB-10 FEB. 015/015-015/015-010/010

SOLTERWARN

BT