

HFUS 1 BOU 091300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 040A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 09 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
08/1200Z TO 09/1200Z: SOLAR ACTIVITY IS LOW. REGION 4077, WHICH  
HAS CROSSED THE WEST LIMB, PRODUCED LOOP ACTIVITY AT SW 17 THAT  
LASTED FROM 082352Z UNTIL 090821Z. OTHER THAN THAT, ACTIVITY  
HAS BEEN CONFINED TO SMALL RADIO AND X-RAY BURSTS. THREE  
ADDITIONAL REGIONS WERE NUMBERED DURING THE PAST 24 HOURS:  
4083(S17E56), 4084(S13W36) AND 4085(S12W13).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN AT A LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. MOSTLY UNSETTLED CONDITIONS ARE ANTICIPATED FOR  
THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 10 FEB-12 FEB

CLASS M 30/20/10  
CLASS X 05/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 08 FEB 137  
ESTIMATED 09 FEB 130  
PREDICTED 10 FEB-12 FEB 125/120/117  
90 DAY MEAN 08 FEB 171

V. GEOMAGNETIC A INDICES  
OBSERVED AFR 07 FEB 037 AP 08 FEB 223  
ESTIMATED AFR 08 FEB 019 AFR/AP 09 FEB 010/015  
PREDICTED AFR/AP 10 FEB-12 FEB 008/010-010/015-010/020  
EFFECTIVE 15 FEB 83 THIS REPORT WILL NO LONGER BE ISSUED

SOLTERWARN  
BT

HFUS 3 BOU 092200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 040B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 09 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9  
HOURS. WEST LIMB LOOPS (S17) FROM DEPARTING REGION 4077  
(S18W93) WERE REPORTED ACTIVE AT THE BEGINNING OF THE PERIOD,  
FOLLOWED BY SURGING AND SUBFLARES. A SIGNIFICANT RADIO NOISE  
STORM ON 245 MHZ INTENSIFIED TO 930 FU AT 1828Z BUT NO OPTICAL  
OR X-RAY EVENTS WERE CONCURRENT. REGION 4079 (S18W49), THE MOST  
SIGNIFICANT GROUP ON THE DISK, CONTINUES TO DECAY QUIETLY.  
THREE NEW REGIONS WERE NUMBERED TODAY. REGION 4086 (N03E67), A  
BIPOLAR GROUP, IS THE PROBABLE RETURN OF OLD REGION 4060. NEW  
REGION 4087 (S04W14) IS A SINGLE A-TYPE SPOT. REGION 4088  
(S12E72) IS AN AREA OF BRIGHT PLAGE WHICH CONTAINS A FEW SIMPLE  
SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED FOR THE PAST 9 HOURS. THE FIELD IS EXPECTED TO  
BE SLIGHTLY UNSETTLED TOMORROW BECOMING ACTIVE FOR THE REST OF  
THE FORECAST PERIOD IN RESPONSE TO A RECURRENT CORONAL HOLE. A  
HELIUM 10830A SPECTROHELIOGRAM RECEIVED TODAY SHOWS A  
POSITIVE-POLARITY EQUATORIAL CORONAL HOLE LOCATED NEAR W15.

III. EVENT PROBABILITIES 10 FEB-12 FEB

CLASS M 30/20/10

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEB 125

PREDICTED 10 FEB-12 FEB 118/110/100

90 DAY MEAN 09 FEB 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 FEB 016/023

ESTIMATED AFR/AP 09 FEB 010/015

PREDICTED AFR/AP 10 FEB-12 FEB 008/010-015/015-019/020

SOLTERWARN

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