

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

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