

HFUS 1 BOU 231400  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 054A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 23 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
22/1200UT TO 23/1200UT:

MODERATE SOLAR ACTIVITY CONTINUES FROM BOTH THE NORTHWEST AND  
SOUTHEAST LIMBS. A LOOP PROMINENCE SYSTEM WAS OBSERVED IN  
REGION 2941 (N18W LIMB) FROM 23/0630-0650UT. ACTIVE SURGING  
IS ALSO REPORTED FROM REGIONS 2941, 2943 (N11W LIMB) AND 2947  
(N10W83). NEW REGION 2955 (S08E77) PRODUCED A C6/BRIGHT SURGE  
TO .17 RADII FROM 23/0420-0455UT. ANOTHER REGION APPEARS TO  
BE FURTHER EAST OF 2955 AT S12E LIMB. REGION 2951 (N12W28)  
CONTINUES A SLOW GROWTH AND HAS PRODUCED SEVERAL SUBFLARES. IT  
IS STILL THE LARGEST REGION ON THE DISK. AN M4 XRAY EVENT AT  
23/0554UT OCCURRED WHEN ALL OF THE ABOVE REGIONS WERE ACTIVE.  
IT WAS MOST LIKELY FROM REGION 2941 OR 2955. NEW REGION 2956  
(N17E78), WITH A SMALL SPOT GROUP, WAS NUMBERED.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO DECLINE AS REGIONS 2941, 2943  
AND 2947 ROTATE BEYOND WEST LIMB. CLASS M EVENTS ARE STILL  
POSSIBLE FROM REGION 2951 AND INCREASINGLY FROM REGION 2955.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD REMAINED MOSTLY QUIET WITH A SHORT UN-  
SETTLED PERIOD FROM 22/2100 TO 23/0300Z. UNSETTLED CONDITIONS  
ARE EXPECTED LATE ON THE 23RD AND 24TH DUE TO A CORONAL HOLE  
WHICH CROSSED CENTRAL MERIDIAN ON 21 FEB.

III. EVENT PROBABILITIES: 24-26 FEB

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 FEB 204

ESTIMATED 23 FEB 195

PREDICTED 24-26 FEB 198/202/206

90 DAY MEAN 22 FEB 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 FEB 06 AP 22 FEB 08

ESTIMATED AFR 22 FEB 03 AFR/AP 23 FEB 07/08

PREDICTED AFR/AP 24-26 FEB 15/15 08/08 08/12

SOLTERWARN

BT

HFUS 3 ROU 232200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 054R  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0200UT 23 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
23/1200UT TO 23/2200UT:

THERE WAS CONTINUED GROWTH IN REGION 2951 (N12W35) BUT NO MAJOR  
FLARES OBSERVED THIS PERIOD. THE 10 CM FLUX JUMPED SIGNIFICANTLY  
FROM YESTERDAY.

IB. SOLAR ACTIVITY FORECAST:  
MODERATE ACTIVITY IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST:  
THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THIS PERIOD.  
THE BOULDER K-INDEX FROM 1500-1800UT WAS A FOUR.

III. EVENT PROBABILITIES: 24-26 FEB

CLASS M 60/70/70

CLASS X 05/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 FEB 228

PREDICTED 24-26 FEB 230/232/234

90 DAY MEAN 23 FEB 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 FEB 07/08

ESTIMATED AFR/AP 23 FEB 14/12

PREDICTED AFR/AP 24-26 FEB 15/15 08/08 08/09

SOLTERWARN

BT