

HFUS 1 BOU 111400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 042A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 11 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

10/1200UT TO 11/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE TO NEAR LOW LEVELS. THE MOST IMPRESSIVE EVENT OF THIS PERIOD HAS BEEN A C3/1N FLARE FROM REGION 2930 (N12E07), MAXIMUM OCCURRING AT 0402Z, ACCOMPANIED BY CENTIMETRIC RADIO EMISSION INCLUDING 1100 FLUX UNITS AT 240MHZ. REGION 2930 REMAINS AN F CLASS GROUP SHOWING SPOT REORGANIZATION IN TRAILER AND MIDSECTION. THIS REGION CONTINUES MAGNETICALLY AS A BETA-GAMMA-DELTA. THREE H CLASS REGIONS HAVE MOVED OVER THE EAST LIMB, 2941 (N19E67), 2942 (S18E73), 2943 (N12E73). SPOTS HAVE APPEARED IN A FLARE AREA (S08E08) ESTABLISHING A C CLASS REGION 2940.

IB. SOLAR ACTIVITY FORECAST:

REGION 2930 STILL MAINTAINS POTENTIAL FOR ENERGETIC ACTIVITY WHILE OTHER REGIONS APPEAR CAPABLE OF ACTIVITY ONLY AT LOW LEVELS. SOLAR ACTIVITY MAY REMAIN NEAR MODERATE LEVELS FOR THE NEXT PERIOD DEPENDING PRIMARILY ON THE PERFORMANCE OF REGION 2930.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN SO THROUGHOUT THIS NEXT FORECAST PERIOD. DUE TO A DISAPPEARING FILAMENT ON 09 FEB, THE FIELD CAN BE EXPECTED TO BECOME UNSETTLED TO NEAR ACTIVE CONDITIONS ON ABOUT 13 FEBRUARY.

III. EVENT PROBABILITIES: 12 - 14 FEB

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 10 FEB 190

ESTIMATED 11 FEB 184

PREDICTED 12-14 FEB 182/180/178

90 DAY MEAN 10 FEB 199

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 FEB 21 AP 10 FEB 05

ESTIMATED AFR 10 FEB 03 AFR/AP 11 FEB 04/06

PREDICTED AFR/AP 12-14 FEB 06/10 14/14 10/10

SOLTERWARN

BT

HFUS 2 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 042B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 11 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
11/1200UT TO 11/2200UT:

SOLAR ACTIVITY HAS REMAINED LOW. ONLY FIVE SMALL C CLASS
XRAY EVENTS HAVE OCCURRED. THE LARGEST WAS A C5 ASSOCIATED
WITH SURGING ON THE EAST LIMB AT N14. THE REGION PRODUCING
THE SURGES IS STILL BEYOND THE LIMB. REGION 2930 (N12W13)
APPEARS UNCHANGED AND PRODUCED A C4/SF FLARE AT 1625Z. DUE
TO LIMITED OBSERVATIONS THE OTHER XRAY EVENTS WERE UNCOR-
RELATED WITH OPTICAL FLARES.

IB. SOLAR ACTIVITY FORECAST:

REGION 2930 STILL MAINTAINS POTENTIAL FOR ENERGETIC ACTIVITY
WHILE OTHER REGIONS APPEAR CAPABLE OF ACTIVITY ONLY AT LOW
LEVELS. SOLAR ACTIVITY MAY REMAIN NEAR MODERATE LEVELS FOR THE
NEXT PERIOD DEPENDING PRIMARILY ON THE PERFORMANCE OF REGION
2930.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BE
UNSETTLED THROUGH THE FORECAST PERIOD. DUE TO A DISAPPEARING
FILAMENT ON 09 FEB, THE FIELD MAY REACH NEAR ACTIVE CONDITIONS
ON 13 FEB.

III. EVENT PROBABILITIES: 12 - 14 FEB

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 11 FEB 191

PREDICTED 12-14 FEB 190/190/190

90 DAY MEAN 11 FEB 198

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 FEB 04/05

ESTIMATED AFR/AP 11 FEB 07/06

PREDICTED AFR/AP 12-14 FEB 10/10 14/14 10/10

SOLTERWARN

BT