

HFUS 1 BOU 301400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 030A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 30 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

29/1200UT TO 30/1200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ONLY 8 C-CLASS SUBFLARES HAVE BEEN NOTED DURING THAT TIME (WITH OPTICAL ASSOCIATION). SEVERAL OF THE SUBFLARES WERE NOTED IN REGION 2911 (S13E-5) WHICH HAS STOPPED PRODUCING M-CLASS EVENTS. THE REGION HAS SIMPLIFIED MAGNETICALLY BUT AN AFS IS PRESENT AND MAY PORTEND RESTRUCTURING AND FURTHER GROWTH. 2911'S NEIGHBOR, REGION 2918 (S11E4S) HAS PRODUCED ONLY A SINGLE SMALL C-CLASS SUBFLARE DURING THE LAST 24 HOURS. THIS REGION MAY ALSO HAVE REACHED A STABLE POINT, AT LEAST TEMPORARILY. SURGING ALONG NE AND SE LIMBS INDICATES MORE ACTIVE CENTERS APPROACHING EAST LIMB BUT THEY ARE PRODUCING NO SIGNIFICANT X-RAY SIGNATURES AS DID REGIONS 2911 AND 2918. REGIONS TO THE WEST OF CENTRAL MERIDIAN HAVE BEEN QUIET.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO INFREQUENTLY MODERATE DURING THE NEXT 48 HOURS. AN INCREASE IN ACTIVITY AFTER THAT POINT DEPENDS ON SUBSTANTIAL ADDITIONAL GROWTH AND RESTRUCTURING IN REGIONS 2911 AND 2918. THIS MAY NOT OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETLED TO QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE QUIET TO MILDLY UNSETLED FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES: 31 JANUARY - 02 FEBRUARY 1981

CLASS M 40/40/50

CLASS X 05/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 JANUARY 211

ESTIMATED 30 JANUARY 213

PREDICTED 31 JAN-02 FEBRUARY 217/219/224

90 DAY MEAN 29 JANUARY 207

V. GEOMAGNETIC A INDICES

OSB SERVED AFR 28 JANUARY 12 AP 29 JANUARY 14

ESTIMATED AFR 29 JANUARY 15 AFR/AP 30 JANUARY 07/10

PREDICTED AFR/AP 31 JANUARY-02 FEBRUARY 09/10 10/10 11/12

SOLTERWARN

BT

HFUS 3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 0308

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 30 JAN 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

30/1200UT TO 30/2200UT:

REGION 2924 (S09E58) A C TYPE GROUP AND REGION 2925 (N14E65) AN H TYPE GROUP WERE NUMBERED TODAY. NO ACTIVITY ABOVE C CLASS HAS OCCURRED SINCE 1200UT. A C4 EVENT OCCURRED IN REGION 2919 (S17E30) MAXIMUM AT 2117 WITH ASSOCIATED RADIO BURST GIVING 610 FLUX UNITS AT 245 MHZ.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO INFREQUENTLY MODERATE DURING THE NEXT 48 HOURS. AN INCREASE IN ACTIVITY AFTER THAT POINT DEPENDS ON SUBSTANTIAL ADDITIONAL GROWTH AND RESTRUCTURING IN REGIONS 2911 AND 2918. THIS MAY NOT OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETLED TO QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE QUIET TO MILDLY UNSETLED FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES: 31 JAN - 02 FEB

CLASS M 40/40/50

CLASS X 05/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 JAN 216

PREDICTED 31 JAN-02 FEB 217/219/224

90 DAY MEAN 30 JAN 207

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 29 JAN 15/14

ESTIMATED AFR/AP 30 JAN 07/06

PREDICTED AFR/AP 31 JAN-02 FEB 09/10 10/10 11/12

SOLIERWARN

BT