

HFUS 1 BOU 271400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 027A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 27 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

26/1200UT TO 27/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PERIOD. TWO M-CLASS EVENTS HAVE BEEN RECORDED, A M1.4 AT 26/1241 UT AND A M1.6 AT 27/0536 UT, NO CORRELATED OPTICAL REPORTS DUE TO TECHNICAL AND WEATHER PROBLEMS AT SEVERAL OF THE OBSERVATORIES. A C6/SB AT 26/1719 UT WAS RECORDED FROM REGION 2911 (S11E56). LOOPS HAVE BEEN REPORTED FROM SE11 AT 26/2340 UT. NEW REGION 2916 (N19E65) IS A D-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT OR NEAR MODERATE LEVELS. REGION 2911 HAS APPARENTLY STABILIZED AS ITS PRODUCTION OF M-CLASS EVENTS HAS DROPPED TO ONLY TWO IN THE LAST 24 HOURS. ANY CHANGE IN REGION 2911 MAY TRIGGER A MAJOR EVENT. A NEW REGION MAY STILL BE EAST OF 2911 AS NEW PLAGE HAS BEEN REPORTED AT S16E85. NO SPOTS HAVE YET BEEN SEEN.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 28-30 JANUARY

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 JAN 180

ESTIMATED 27 JAN 180

PREDICTED 28-30 JAN 184/188/192

90 DAY MEAN 26 JAN 207

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 JAN 07 AP 26 JAN 09

ESTIMATED AFR 26 JAN 06 AFR/AP 27 JAN 07/07

PREDICTED AFR/AP 28-30 JAN 09/07 10/10 10/10

SOLTERWARN

BT

HFUS 3 BOU 272240

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 027B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 27 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200UT TO 26/2200UT : SOLAR ACTIVITY HAS BEEN MODERATE. FLARES OCCURRING SINCE 26/1200UT HAVE BEEN AN M4/1B AT 1547UT FROM REGION 2911 (S13E69), WHICH IS THE MOST ACTIVE REGION CURRENTLY ON THE DISK, AND NUMEROUS SUBFLARES, OCCURRING MOSTLY IN NEW REGIONS 2918 (S11E76) AND 2919 (S16E72). ANOTHER NEW REGION, 2917 (N20W10), HAS BEEN INACTIVE.

IB. SOLAR ACTIVITY FORECAST : SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST : THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO REMAIN UNSETTLED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 28 JANUARY - 30 JANUARY

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 JANUARY 184

PREDICTED 28-30 JANUARY 188/192/196

90-DAY MEAN 27 JANUARY 207

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 JANUARY 09/09

ESTIMATED AFR/AP 27 JANUARY 09/09

PREDICTED AFR/AP 28-30 JANUARY 09/07 - 10/10 - 10/10

SOLTERWARN

BT