

HFUS 3 BOU 031400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 003A

JOINT USAF/NASA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 03 JAN 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200UT TO 03/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. HOWEVER, A REGION NEAR S 16E 81 HAS ROTATED ONTO THE DISK AND IS PRODUCING SURGE ACTIVITY AS WELL AS FREQUENT PLAGE FLUCTUATIONS. THIS MAY BE THE RETURN OF OLD REGION 2827 WHICH WAS NOT VERY ACTIVE LAST TRANSIT AND LOST ITS SPOTS BEFORE WEST LIMB PASSAGE. SURGING IS ALSO BEING OBSERVED NEAR NW 1-6 WHERE 2870 HAS ROTATED OVER.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE NEXT 24 TO 36 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. UNSETTLED CONDITIONS SHOULD BECOME MORE PREVALENT DURING THE COMING 24 HOURS.

III. EVENT PROBABILITIES: 04 JAN - 06 JAN

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 JAN 188

ESTIMATED 03 JAN 182

PREDICTED 04-06 JAN 177/173/170

90 DAY MEAN 02 JAN 218

V. GEOMAGNETIC INDICES

OBSERVED AFR 01 JAN 09 AP 02 JAN 08

ESTIMATED AFR/AP 03 JAN 09/08

PREDICTED AFR/AP 04-06 JAN 08/10 08/10 12/12

SOLAR WARNS

BT

HFUS 3 BOUL 0322 00

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 003B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 03 JAN 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200UT TO 03/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. HOWEVER, A REGION NEAR S16E81 HAS ROTATED ONTO THE DISK AND IS PRODUCING SURGE ACTIVITY AS WELL AS FREQUENT PLAGE FLUCTUATIONS. THIS MAY BE THE RETURN OF OLD REGION 2827 WHICH WAS NOT VERY ACTIVE LAST TRANSIT AND LOST ITS SPOTS BEFORE WEST LIMB PASSAGE. SURGING IS ALSO BEING OBSERVED NEAR NW16 WHERE 2870 HAS ROTATED OVER.

ADDITIONS TO 1200Z FORECAST: NEW REGION 2875 (S16E68) PRODUCED ONE SUBFLARE AND IS PRESENTLY A MAGNETIC A-TYPE GROUP. TWO REGIONS PRESENTLY DISPLAY ARCH-FILAMENT SYSTEMS AND HAVE ALSO PRODUCED SUB-FLARES. THESE ARE REGION 2873 (N09W20) AND REGION 2871 (N22W44). ACTIVE FILAMENTS HAVE BEEN OBSERVED AT S20W55 AND AT NE35. A SPRAY (NW22) EXTENDING TO .2 IR OCCURRED AT 1930-1949Z. ALL OTHER DISK AND LIMB FEATURES ARE REPORTED QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE NEXT 24-36 HOURS. THE REST SUBFLARE POTENTIAL WILL BE FROM REGIONS 2873 AND 2871.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED. UNSETLED CONDITIONS SHOULD BECOME MORE PREVALENT DURING THE COMING 24 HOURS.

III. EVENT PROBABILITIES: 04 JAN - 06 JAN

CLASS M 15/15/15

CLASS X 01/01/01

POT ON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 JAN 179

PREDICTED 04-06 JAN 177/175/173

90 DAY MEAN 03 JAN 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 JAN 07/08

ESTIMATED AFR/AP 03 JAN 09/09

PREDICTED AFR/AP 04-06 JAN 08/10 08/10 12/12

SOLTERWARN

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