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HFUS 3 BOU 061400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 006A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 06 JANUARY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

05/1200UT TO 06/1200UT:

SOLAR ACTIVITY INCREASED BRIEFLY TO THE MODERATE LEVEL WITH THE OCCURRENCE OF AN IMPULSIVE M3 X-RAY EVENT AT 05/1621Z FROM AN UNCONFIRMED SOURCE (MOST PROBABLE SOURCE WAS THE WEST LIMB). REGIONS 2873 (N08W61) AND 2875 (S15E34) HAVE BEEN THE MAJOR PRODUCERS OF SUBFLARE ACTIVITY DURING THE PAST 24 HOURS. EACH IS GROWING BUT 2873'S HAS BEEN RAPID WITH A 100 PERCENT INCREASE IN SPOT AREA REPORTED. NEW REGION 2880 (N07E73) HAS ROTATED OVER EAST LIMB AS A LARGE H-TYPE GROUP WITH MINOR SUBFLARE ACTIVITY. SURGING AT NE23 AND SE20 CONTINUES INTERMITTENTLY.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW THROUGH THE NEXT 24 HOURS ALTHOUGH THE PROBABILITY FOR ACTIVITY IS INCREASING. SOLAR INDICES (10.7CM RADIO FLUX AND SUNSPOT NUMBER) ARE EXPECTED TO BOTTOM-OUT TODAY AND START RISING TOMORROW WITH THE RETURN OF ACTIVE REGIONS 2840 (N07, CAR 341) AND 2841 (N13, CAR 332).

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS EXCEPT FOR A BRIEF ACTIVE PERIOD BETWEEN 15 AND 18Z ON THE 5TH. QUIET TO SLIGHTLY UNSETLED CONDITIONS ARE EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 07 JAN - 09 JAN

CLASS M 20/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 JAN 167

ESTIMATED 06 JAN 160

PREDICTED 07-09 JAN 164/166/170

90 DAY MEAN 05 JAN 213

V. GEOMAGNETIC INDICES

OBSERVED AFR 04 JAN 12 AP 05 JAN 07

ESTIMATED AFR/AP 06 JAN 05/07

PREDICTED AFR/AP 07-09 JAN 10/10 10/10 08/08

SOLTERWAR

BT

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 0068

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 06 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200UT  
TO 06/2200UT.

SOLAR ACTIVITY HAS BEEN LOW SINCE 1200UT. ONLY TWO C-CLASS  
SUBFLARES HAVE BEEN REPORTED DURING THAT TIME; BOTH FROM  
REGION 2875 (S15E28).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE GENERALLY LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETLED SINCE 1200UT.  
THE FIELD IS EXPECTED TO BE MILDLY UNSETLED FOR THE NEXT  
THREE DAYS.

III. EVENT PROBABILITIES: 07 JANUARY - 09 JANUARY 1981

CLASS M 20/25/30

CLASS X 01/01/01

PROLON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 JANUARY 163

PREDICTED 07-09 JANUARY 164/166/170

90 DAY MEAN 06 JANUARY 2.17

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 05 JANUARY 08/07

ESTIMATED AFR/AP 06 JANUARY 05/07

PREDICTED AFR/AP 07-09 JANUARY 10/10 10/10 08/08

SOLTERWARN

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