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HFIUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 300A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 27 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS CONTINUED AT LOW  
LEVELS, WITH ONLY ISOLATED C-CLASS SUBFLARES BEING REPORTED.  
THERE ARE CURRENTLY SIX SIMPLE REGIONS ON THE SOLAR DISK. THE  
NEWEST IS REGION 3427 (N16E80), WHICH JUST ROTATED ON AT THE  
EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE AT LOW LEVELS. NO REGION CURRENTLY ON THE DISK IS  
CAPABLE OF PRODUCING MAJOR FLARES. OLD ACTIVE REGION 3388 (S09)  
SHOULD BE ABOUT 24 HOURS AWAY FROM THE EAST LIMB, BUT THERE IS  
NOT YET ANY EVIDENCE OF ITS RETURN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS  
UNSETLED, BECOMING QUIET DURING THE LATTER PART OF THIS  
PERIOD. A LARGE NORTHERN HEMISPHERIC SOLAR CORONAL HOLE CAN BE  
EXPECTED TO BRING ACTIVE LEVELS ON 29-30 OCT.  
OTHERWISE, THE FIELD SHOULD BE UNSETLED.

III. EVENT PROBABILITIES 28 OCT-30 OCT

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 OCT 174

ESTIMATED 27 OCT 168

PREDICTED 28 OCT-30 OCT 165/160/165

90 DAY MEAN 26 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 OCT 021 AP 26 OCT 009

ESTIMATED AFR 26 OCT 012 AFR/AP 27 OCT 007/012

PREDICTED AFR/AP 28 OCT-30 OCT 012/014-015/018-015/020

SOLTERWARN

BT

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HIUS KXMR 271300

TELCO

74794 11027 2ATS5 4//01

11111 1300/ 36016 99999

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PREDM 02028 02029 02030

PREDX 00128 00129 00130

PREDP 00128 00129 00130

PCAF 00128

TENCM 16528 16029 16530

AFRED 01228 01529 01530

AFAPP 01428 01829 02030

VVV 00077 00223 33333

HFXUS 3 BOU 272200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 300B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 27 OCT 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THIS PERIOD. THE LARGEST EVENT WAS A SB/C7 AT 27/1840 UT FROM REGION 3416(S05W54). NO NEW REGIONS HAVE BEEN CONFIRMED SINCE 3427(N16E73).

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. GROWTH OBSERVED IN REGION 3416 HAS THUS FAR BEEN INSUFFICIENT TO PRODUCE MODERATE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS WITH THE EXCEPTION OF THE 15-18 UT PERIOD WHEN K=4 AT BOULDER. UNSETTLED CONDITIONS ARE EXPECTED FOR 28 OCT, BECOMING ACTIVE ON 29-30 OCT IN RESPONSE TO A NORTHERN HEMISPHERE CORONAL HOLE.

III. EVENT PROBABILITIES 28 OCT-30 OCT

CLASS M 20/20/20  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 OCT 174  
PREDICTED 28 OCT-30 OCT 172/168/170  
90 DAY MEAN 27 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 OCT 010/009  
ESTIMATED AFR/AP 27 OCT 013/012  
PREDICTED AFR/AP 28 OCT-30 OCT 012/014-015/018-017/020  
SOLTERWARN  
BT

HFXUS BOU 272200  
PREDM 02028 02029 02030  
PREDX 00128 00129 00130  
PREDP 00128 00129 00130  
PCAFF 00128  
TENCM 17228 16829 17030  
AFRED 01228 01529 01730  
AFAPF 01428 01829 02030  
BT