

RUN "SDF  
 COMMAND? T  
 HFUS 1 BOU 021300  
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
 SDF NUMBER 306A  
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
 ISSUED 1300Z 02 NOV 1981  
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
 01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION  
 3432 (S12E31) PRODUCED A M1/SB (1314Z X-RAY MAX), A C9/SB  
 (2257Z X-RAY MAX), AND A C9/SB (0148Z X-RAY MAX). MODERATE  
 CENTIMETRIC RADIO BURSTS OCCURRED WITH EACH OF THESE FLARES.  
 REGIONS 3427 (N15E02) AND 3429 (S22E01) HAVE PRODUCED SEVERAL  
 SUBFLARES. HOWEVER, THE VAST MAJORITY OF FLARES ARE OCCURRING  
 IN REGION 3432; THE MOST SIGNIFICANT OF THE DISK REGIONS. THE  
 DELTA CONFIGURATION STILL REMAINS IN THE LEAD PORTION OF THE  
 SUNSPOT STRUCTURE. THE INTENSITY OF THE RADIO BURSTS  
 ASSOCIATED WITH FLARES IN REGION 3432 IS INCREASING. FIVE NEW  
 REGIONS, ALL SIMPLE, WERE ADDED ON 01 NOVEMBER.  
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
 REMAIN MODERATE, DOMINATED BY ACTIVITY IN REGION 3432.  
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS  
 UNSETTLED ON 01 NOVEMBER BUT QUIET TODAY. THE FIELD IS  
 EXPECTED TO BECOME UNSETTLED ON 03 NOVEMBER AND REMAIN SO UNTIL  
 THE LATTER PART OF 05 NOVEMBER, WHEN THE EFFECTS OF A CORONAL  
 HOLE ARE EXPECTED TO PRODUCE ACTIVE FIELD CONDITIONS.  
 III. EVENT PROBABILITIES 03 NOV-05 NOV  
 CLASS M 60/70/70  
 CLASS X 05/05/05  
 PROTON 01/01/01  
 PCAF GREEN  
 IV. OTTAWA 10.7 CM FLUX  
 OBSERVED 01 NOV 232  
 ESTIMATED 02 NOV 250  
 PREDICTED 03 NOV-05 NOV 255/260/265  
 90 DAY MEAN 01 NOV 222  
 V. GEOMAGNETIC A INDICES  
 OBSERVED AFR 31 OCT 004 AP 01 NOV 009  
 ESTIMATED AFR 01 NOV 008 AFR/AP 02 NOV 004/008  
 PREDICTED AFR/AP 03 NOV-05 NOV 013/015-010/015-012/014  
 SOLTERWARN  
 RT

HXUS BOU 021300  
 PREDM 06003 07004 07005  
 PREDX 00503 00504 00505  
 PREDP 00103 00104 00105  
 PCAFT 00103  
 TENCN 25503 26004 26505  
 AFRED 01303 01004 01205  
 AFAPF 01503 01504 01405  
 KKK 12233 32323 33232  
 RT

RT  
HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 306B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
02/1200Z TO 02/2100Z: SOLAR ACTIVITY WAS LOW TO MODERATE THE  
PAST NINE HOURS. REGION 3427(N16W05) PRODUCED A C7/1B FLARE AT  
021509Z (MAX) WITH SHORTWAVE FADES TO 15 MHZ AND SMALL RADIO  
BURSTS AT BOTH SWEEP AND FIXED FREQUENCIES (130 FLUX UNITS AT  
2695 MHZ). REGION 3427 IS DEVELOPING ADDITIONAL SATELLITE SPOTS  
AND THE PLAGE TO THE SOUTHWEST OF THE LARGE SPOT MAY BE  
GROWING. LARGE REGION 3432(S12E22) HAS BEEN BASICALLY QUIET  
BUT DID MANAGE A SMALL SB FLARE AT 021504Z(MAX). THIS REGION  
RETAINS ITS DELTA CONFIGURATION AND POSSIBLY SOME SPOT ROTATION  
IS OCCURRING WITHIN THE LARGE PENUMBRA. ARCH FILAMENT SYSTEMS  
ARE BEING REPORTED IN REGIONS 3431(N28314) 3440(N14352) AND  
3443 (N12E09). AN APR NEAR NE05 MAY BE A WEAK LOOP SYSTEM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY  
MODERATE THE NEXT 24 HOURS. RECENT DEVELOPMENTS IN REGION 3432  
PRECIPITATED THE INCREASE IN CLASS X PROBABILITIES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN QUIET. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED FOR  
THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 60/70/70

CLASS X 10/15/20

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 NOV 247

PREDICTED 03 NOV-05 NOV 255/260/265

90 DAY MEAN 02 NOV 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 NOV 007/009

ESTIMATED AFR/AP 02 NOV 006/003

PREDICTED AFR/AP 03 NOV-05 NOV 013/015-010/015-012/014

SOLTERWARN

BT

HFUS BOU 022200

PREDM 06003 07004 07005

PREDX 01003 01504 02005

PREDP 00103 00104 00105

PCAF 00103

TENCM 25503 26004 26505

AFRED 01303 01004 01205

AFAPF 01503 01504 01405

BT