

BT  
 HFUS 1 BOU 141300  
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
 SDF NUMBER 319A  
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
 ISSUED 1300Z 14 NOV 1981  
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
 13/1200Z TO 14/1200Z: SOLAR ACTIVITY WAS HIGH DURING THE PAST 24  
 HOURS. REGIONS 3456 (N17E03), 3451 (N13W39) AND 3461 (S04E63) HAVE  
 PRODUCED M CLASS FLARES. REGION 3451 IS THE MOST COMPLEX OF  
 THESE THREE REGIONS WITH SEVERAL MAGNETIC DELTA CONFIGURATIONS  
 AND A NEUTRAL LINE THAT EXHIBITS FREQUENT POINT BRIGHTENINGS.  
 REGION 3456 IS THE LEAST COMPLEX OF THE THREE AND HAS  
 APPARENTLY STABILIZED IN GROWTH. REGION 3461 IS QUITE SIMILAR  
 IN APPEARANCE TO 3456 AT THIS POINT BUT APPEARS TO HAVE PLAGE  
 EXTENDING TO THE LIMB. THE REMAINING EIGHT REGIONS ARE  
 BASICALLY SIMPLE EXCEPT FOR 3450 (S19W51) WHICH IS A BETA GAMMA  
 MAGNETICALLY BUT IS SLOWLY DECAYING. F IB. SOLAR ACTIVITY  
 FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THE  
 DURATION OF THIS FORECAST PERIOD. II. GEOPHYSICAL SUMMARY AND  
 FORECAST: THE GEOMAGNETIC FIELD WAS QUIET UNTIL LATE ON 13  
 NOVEMBER WHEN UNSETTLED CONDITIONS BEGAN. UNSETTLED TO ACTIVE  
 CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.  
 L III. EVENT PROBABILITIES 15 NOV-17 NOV  
 CLASS M 95/95/95  
 CLASS X 30/30/30  
 PROTON 30/30/30  
 PCAF YELLOW  
 IV. OTTAWA 10.7 CM FLUX  
 OBSERVED 13 NOV 221  
 ESTIMATED 14 NOV 218  
 PREDICTED 15 NOV-17 NOV 216/210/205  
 90 DAY MEAN 13 NOV 230  
 V. GEOMAGNETIC A INDICES  
 OBSERVED AFR 12 NOV 026 AP 13 NOV 006  
 ESTIMATED AFR 13 NOV 005 AFR/AP 14 NOV 015/017  
 PREDICTED AFR/AP 15 NOV-17 NOV 013/025-018/020-015/015  
 SOLTERWARN  
 BT

*Sorry ABOUT  
 THAT BUT I  
 HAD PROBLEMS  
 7/17*

HFUS BOU 141300  
 PREDM 09515 09516 09517  
 PREDX 03015 03016 03017  
 PREDP 03015 03016 03017  
 PCAFT 00215  
 TENCN 21615 21016 20517  
 AFRED 01315 01316 01517  
 AFAPF 02515 02016 01517  
 KKK 23344 33333 34433  
 BT

HFUS 3 BOU 142200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 313B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9  
HOURS. NUMEROUS SUBFLARES HAVE BEEN REPORTED FROM 7 SEPARATE  
REGIONS. REGION 3454 (N03W51) WHICH HAS EXHIBITED MARKED  
PENUMBRA GROWTH IN THE LEADER PORTION, PRODUCED 9 SMALL FLARES  
AND REMAINS AT OR NEAR FLARE INTENSITY. THREE NEW REGIONS WERE  
NUMBERED. THEY ARE 3462 (S18E12) AND 3463 (N13E13), BOTH B TYPE  
GROUPS WHICH FORMED ON THE DISK, AND 3464 (S04E68) WHICH IS  
APPARENTLY A SEPARATE REGION FOLLOWING 3461 (S04E56).

IR. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
MODERATE FOR THE DURATION OF THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT ACTIVE LEVELS DURING THIS REPORTING PERIOD. THIS  
ACTIVITY IS ATTRIBUTED TO THE EFFECTS OF A MAJOR FLARE ON 12  
NOVEMBER. GEOMAGNETIC CONDITIONS ARE EXPECTED TO REMAIN AT  
HIGH-UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 15 NOV-17 NOV

CLASS M 95/95/95

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 NOV 212

PREDICTED 15 NOV-17 NOV 211/210/205

90 DAY MEAN 14 NOV 230

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 NOV 004/006

ESTIMATED AFR/AP 14 NOV 013/017

PREDICTED AFR/AP 15 NOV-17 NOV 013/025-018/020-015/015

SOLTERWARN

BT

2-18/25  
18/12/81

HYUS BOU 142200

PREDM 09515 09516 09517

PREDX 03015 03016 03017

PREDP 03015 03016 03017

PCAF 00215

TENCM 21115 21016 20517

AFRED 01315 01316 01517

AFAPF 02515 02016 01517

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