

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  
N/A*

FXUS BOU 141300  
PREDM 09515 09516 09517  
PREDX 03015 03016 03017  
PREDP 03015 03016 03017  
PCAFT 00215  
TENCM 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  
PENUMBRAL 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 004/005

ESTIMATED AFR/AP 14 NOV 013/017

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

SOLTERWARN

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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 21015 20517

AFRED 01315 01316 01517

AFAPF 02515 02015 01517

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