

HFUS 1 BOU 181300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 261A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 18 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
17/1200Z TO 18/1200Z: SOLAR ACTIVITY HAS BEEN LOW. ALL DISK  
REGIONS ARE SIMPLE IN MAGNETIC STRUCTURE WITH NO SIGNIFICANT  
CHANGES OCCURRING. ACTIVITY HAS MAINLY BEEN CONFINED TO PLAGE  
FLUCTUATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED TO ACTIVE. GENERALLY ACTIVE FIELD CONDITIONS ARE  
EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 19 SEP-21 SEP

CLASS M 25/15/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 SEP 150

ESTIMATED 18 SEP 148

PREDICTED 19 SEP-21 SEP 146/144/142

90 DAY MEAN 17 SEP 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 SEP 012 AP 17 SEP 014

ESTIMATED AFR 17 SEP 012 AFR/AP 18 SEP 013/015

PREDICTED AFR/AP 19 SEP-21 SEP 015/020-015/020-015/015

SOLTERWARN

BT

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 261B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. HOWEVER, SUBFLARES WERE OBSERVED IN 4 OF THE 6 SPOTTED REGIONS PRESENTLY ON THE VISIBLE DISK. SINCE YESTERDAY, MOST OF THE SPOT GROUPS HAVE EXPERIENCED DECAY WITH ONLY 3907 (S10E14), 3908 (N19E22), AND 3910 (N14E35) MAINTAINING THEIR WHITE LIGHT APPEARANCE. THERE WERE NO NEW SPOT GROUPS IDENTIFIED TODAY AND THERE WERE NO REPORTS OF EAST LIMB ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS. DATA FROM THE ISEE-3 SPACECRAFT INDICATES THAT A MODERATE SPEED (450 KM/S) BUT ABOVE-AVERAGE DENSITY (11 CM<sup>-3</sup>) SOLAR WIND FROM A NEGATIVE POLARITY SECTOR IS IMPACTING THE EARTH. THE NORTH/SOUTH COMPONENT OF THE INTERPLANETARY MAGNETIC FIELD IS FLUCTUATING BUT IS OCCASIONALLY STRONGLY SOUTHWARD. GENERALLY ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED TO PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 19 SEP-21 SEP

CLASS M 25/15/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 SEP 142

PREDICTED 19 SEP-21 SEP 142/142/142

90 DAY MEAN 18 SEP 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 SEP 007/014

ESTIMATED AFR/AP 18 SEP 018/020

PREDICTED AFR/AP 19 SEP-21 SEP 015/020-015/020-015/015

SOLTERWARN

BT