

HFUS 1 BOU 161300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 259A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 16 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 16/1200Z: SOLAR ACTIVITY REACHED MODERATE LEVELS BRIEFLY WITH THE OCCURRENCE OF AN M2/2B FLARE AT 151826Z (MAX). THIS EVENT, PRODUCED BY REGION 3908 (N18E54), WAS ACCCOMPANIED BY SHORTWAVE FADES TO 15 MHZ, TYPE II SWEEP FREQUENCY BURSTS AND A 10 CM BURST OF 190 FLUX UNITS. SINCE THAT TIME, THE DISK REVERTED BACK TO THE PRODUCTION OF AN OCCASIONAL SUBFLARE. TWO REGIONS WERE NUMBERED DURING THE PAST 24 HOURS; 3909 (N17W13) AND 3910 (N14E67). EXCEPT FOR OCCASIONAL POINT BRIGHTENINGS AND PLAGE FLUCTUATIONS, NONE OF THE DISK REGIONS APPEAR THREATENING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW BUT THE CHANCE OF AN M EVENT EVERY 24 TO 36 HOURS IS QUITE PROBABLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. NO CHANGE IS EXPECTED UNTIL CORONAL HOLE EFFECTS ARRIVE LATE ON 18 SEPT OR EARLY ON 19 SEPT.

III. EVENT PROBABILITIES 17 SEP-19 SEP

CLASS M 50/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 SEP 149

ESTIMATED 16 SEP 150

PREDICTED 17 SEP-19 SEP 153/155/158

90 DAY MEAN 15 SEP 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 14 SEP 012 AP 15 SEP 012

ESTIMATED AFR 15 SEP 013 AFR/AP 16 SEP 012/013

PREDICTED AFR/AP 17 SEP-19 SEP 010/012-010/015-015/020

SOLTERWARN

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HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 259B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 16 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY A
FEW MINOR C-CLASS SUBFLARES OBSERVED. THESE HAVE COME FROM
REGIONS 3905 (S16E17), 3908 (N19E48) AND 3910 (N14E61). MINOR
GROWTH HAS BEEN REPORTED IN THESE REGIONS AS WELL AS REGIONS
3906 (N02E17) AND 3907 (S10E41). REGION 3907 IS NOW THE MOST
MAGNETICALLY COMPLEX ON THE DISK WITH A WEAK DELTA
CONFIGURATION LOCATED JUST TO THE EAST OF ITS LARGE LEADER
SPOT. A NEW EMERGING REGION LOCATED AT N03W27 WAS NUMBERED
3911 TODAY. A LARGE BUSHY FILAMENT LOCATED BETWEEN N30 AND N15,
WEST LIMB, HAS BEEN IMPRESSIVE OPTICALLY, BUT HAS SHOWN NO SIGN
OF ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW, HOWEVER, IF DEVELOPMENT CONTINUES IN REGIONS 3908
AND 3907, ISOLATED M-CLASS EVENTS ARE POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED DURING THE PAST NINE HOURS. SIMILAR CONDITIONS
ARE FORECAST DURING THE NEXT 48 HOURS FOLLOWED BY ACTIVE
CONDITIONS ON THE LAST DAY.

III. EVENT PROBABILITIES 17 SEP-19 SEP

CLASS M 50/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 SEP 146

PREDICTED 17 SEP-19 SEP 150/155/158

90 DAY MEAN 16 SEP 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 SEP 012/012

ESTIMATED AFR/AP 16 SEP 011/013

PREDICTED AFR/AP 17 SEP-19 SEP 010/012-010/015-015/020

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