

HFUS 1 BOU 081300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 159A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 08 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
07/1200Z TO 08/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE  
PAST 24 HOURS. REGION 3763 (S09E02) PRODUCED 3 M-CLASS FLARES,  
THE LARGEST BEING AN M4/1B FLARE MAXING ON 07 JUNE 1348Z. MINOR  
SOLAR RADIO NOISE BURSTS AND MAJOR SHORT WAVE FADES ACCOMPANIED  
EACH EVENT. RESTRUCTURING IS EVIDENT IN THE MAIN SPOT OF  
REGION 3763 (WHICH STILL CONTAINS MIXED MAGNETIC POLARITIES)  
AND SPOTS WHICH HAD SEPARATED FROM THE WESTERN PORTION OF THE  
MAIN SPOT ARE THEMSELVES GROWING. TWO NEW REGIONS WERE NUMBERED  
UPON EAST LIMB PASSAGE, REGION 3769 (N10E48) AND 3770 (S18E54).  
THEY ARE BOTH SHOWING BRIGHT POINTS AND REGION 3770 IS GROWING  
RAPIDLY. REGION 3767 (S08W36) HAS SHOWN SOME GROWTH WHILE  
REGION 3759 (N10W26) IS UNDERGOING DECAY. MEANWHILE, THE EAST  
LIMB IS BECOMING INTERESTING. A NEW REGION IS CROSSING THE LIMB  
NEAR SE02 AND SURGING HAS BEEN OBSERVED NEAR SE20 AND NE17.  
LOOPS TO .03 RADII WERE REPORTED AT NE19 BETWEEN 2045-2312Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
MODERATE TO HIGH. EVEN THOUGH THE FREQUENCY OF SIGNIFICANT  
EVENTS FROM REGION 3763 HAS LESSENERED, ITS EXTREME COMPLEXITY  
AND STRONG MAGNETIC GRADIENTS PORTEND ADDITIONAL MAJOR FLARES.  
SURGING AND LOOPS OBSERVED ON THE NORTHEAST LIMB INDICATE THE  
ACTIVE RETURN ON JUNE 11 OF REGIONS THAT WERE PRODUCING  
ENERGETIC EVENTS UPON WEST LIMB PASSAGE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED TO QUIET FOR THE PAST 24 HOURS. EXPECTED  
GEOMAGNETIC ACTIVITY FROM X-CLASS FLARES ON 3, 4, AND 5 JUNE  
HAS NOT OCCURRED. HOWEVER, A GEOMAGNETIC STORM IS STILL  
POSSIBLE FROM THE X12/3B FLARE OF 6 JUNE. THE DRIZZLE OF HIGH  
ENERGY PROTONS AT SATELLITE LEVELS PRESUMABLY FROM THAT FLARE  
HAS INCREASED SLIGHTLY DURING THE PAST 3 HOURS AND THERE IS  
SIGNIFICANT 3 KHZ NOISE ON THE ISEE-3 INSTRUMENT. A SUDDEN  
COMMENCEMENT AND A FOLLOWING GEOMAGNETIC DISTURBANCE ARE  
THEREFORE EXPECTED WITHIN THE NEXT FEW HOURS.

III. EVFNT PROBABILITIES 09 JUN-11 JUN

CLASS M	99/99/99
CLASS X	45/40/35
PROTON	35/30/25
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	07 JUN	151
ESTIMATED	08 JUN	162
PREDICTED	09 JUN-11 JUN	165/170/175
90 DAY MEAN	07 JUN	165

V. GEOMAGNETIC A INDICES

OBSERVED AFR	06 JUN	020	AP 07 JUN	022
ESTIMATED AFR	07 JUN	023	AFR/AP 08 JUN	019/030
PREDICTED AFR/AP	09 JUN-11 JUN	045/050-025/025-020/020		

SOLTERWARN

BT

NNNNZCVZEZGVZLVZ9UU

KBOH

HFUS 3 80H 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 159B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2007 08 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 08/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD AS REGION 3763 (S09W02) PRODUCED TWO M1/1B EVENTS AT 1753UT AND 1959UT, ONLY MINOR MICROWAVE RADIO BURSTS WERE RECORDED WITH THESE EVENTS. REGION 3763 RETAINS A DELTA IN THE CENTRAL PORTION OF THE REGION. NEW REGIONS TODAY ARE 3771 (S03E67) AND 3772 (N19E80).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH AS REGION 3763 CONTINUES TO BE VERY COMPLEX WITH STRONG MAGNETIC FIELDS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD. THE FIELD IS EXPECTED TO BE AT MINOR STORM LEVELS DURING THE FIRST 24 HOURS OF THE FORECAST, AS THE EFFECTS OF THE X12/3 B OF 6 JUNE ARRIVE, THEN ACTIVE DURING THE REST OF THE FORECAST.

III. EVENT PROBABILITIES 09 JUN-11 JUN

CLASS M 99/99/99

CLASS X 45/40/35

PROTON 35/30/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JUN 162

PREDICTED 09 JUN-11 JUN 165/170/175

90 DAY MEAN 08 JUN 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 JUN 021/022

ESTIMATED AFR/AP 08 JUN 008/012

PREDICTED AFR/AP 09 JUN-11 JUN 045/050-025/025-020/020

SOLTERWARM

BT