

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 LESSENNED, 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

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KBOH

HFUS 3. BOH 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 159B

JO INT USAF/1044 REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 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 003/012

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

SOLTERWARN

BT