

HFUS 1 BOU 081300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 189A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 08 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 08/1200Z: SOLAR ACTIVITY HAS BEEN HIGH. SIX M CLASS X-RAY FLARES HAVE OCCURRED IN THE LAST 24 HOURS, THE LARGEST BEING A M8. ALL OF THESE FLARES ARE THOUGHT TO HAVE ORIGINATED ON THE EAST LIMB BETWEEN N09 AND N18, WHERE LOOP PROMINENCE SYSTEMS HAVE BEEN WITNESSED. REGION 3502 (S17E22) HAS DECAYED AND IS NOT THOUGHT TO POSE A THREAT OF SIGNIFICANT FLARE ACTIVITY. REGION 3803 (N11E58) HAS GROWN BUT IS NOT EXPECTED TO BE A SIGNIFICANT FLARE PRODUCER. NO NEW REGIONS HAVE BEEN NUMBERED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE HIGH THROUGHOUT THE FORECAST PERIOD. THE REGION ROTATING ONTO THE DISK (NE10) APPEARS TO BE AN EXTREMELY DYNAMIC REGION AND SHOULD CONTINUE TO CONTRIBUTE M CLASS X-RAY FLARES, WITH A POSSIBILITY OF X CLASS FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND SHOULD CONTINUE ACTIVE THROUGH JULY 8. ACTIVITY SHOULD DECREASE TO UNSETTLED LEVELS ON JULY 9 AND REMAIN UNSETTLED FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 09 JUL-11 JUL

CLASS M 80/90/90

CLASS X 40/50/50

PROTON 10/20/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUL 128

ESTIMATED 08 JUL 142

PREDICTED 09 JUL-11 JUL 152/160/163

90 DAY MEAN 07 JUL 156

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 JUL 016 AP 07 JUL 022

ESTIMATED AFR 07 JUL 020 AFR/AP 08 JUL 016/017

PREDICTED AFR/AP 09 JUL-11 JUL 014/015-008/015-012/015

SOLTERWARN

BT

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HFUS 3 BOU 082200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 189B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 08 JUL 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200Z TO 08/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. NEW
REGION 3804 (N12E85), WHICH PRODUCED SIX M EVENTS EARLIER
TODAY, HAS ONLY PRODUCED ONE M EVENT SINCE 1200Z, AN M1/1N AT
08/1430Z. IT ALSO PRODUCED FIVE SUBFLARES INCLUDING A C5/SF AT
2041Z AND A C3/SB AT 2003Z. THE SPOT GROUP IN THIS REGION HAS
NOT COMPLETELY ROTATED ONTO THE DISK BUT THE VISABLE PORTION IS
CLASS/ARFA E/780. THE REGION IS THE RETURN OF OLD REGION 3776
WHICH PRODUCED FOUR X LEVEL XRAY EVENTS ON ITS LAST ROTATION
AND IS IN A LONGITUDE BAND WHICH HAS BEEN ACTIVE DURING THE
PAST 9 ROTATIONS. REGIONS 3802 (S16E18) AND 3803 (N11E55)
APPEAR STABLE AND HAVE NOT PRODUCED ANY SIGNIFICANT ACTIVITY
TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE TO HIGH DURING THE FORECAST PERIOD WITH DAILY M-CLASS
EVENTS LIKELY AND AN X-CLASS EVENT POSSIBLE FROM REGION 3804.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED AND IS EXPECTED TO REMAIN UNSETTLED THROUGH 10
JULY. ACTIVE CONDITIONS ARE POSSIBLE BEGINNING 11 JULY DUE TO A
EQUATORIAL CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN ON 7
JULY.

III. EVENT PROBABILITIES 09 JUL-11 JUL
CLASS M 80/90/90
CLASS X 40/50/50
PROTON 10/10/10
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 08 JUL 140
PREDICTED 09 JUL-11 JUL 152/160/163
90 DAY MEAN 08 JUL 156

V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 07 JUL 021/022
ESTIMATED AFR/AP 08 JUL 014/017
PREDICTED AFR/AP 09 JUL-11 JUL 014/015-010/015-016/020
SOLTERWARN
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HXUS BOU 082200
PREDM 08009 09010 09011
PREDX 04009 05010 05011
PREDP 01009 01010 01011
PCAFT 00109
TENCM 15209 16010 16311
AFRED 01409 01010 01611
AFAPF 01509 01510 02011
BT