

HEUS 1 BOU 15-1300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 196A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 15 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200Z TO 15/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.
REGION 3203 (S08W06) PRODUCED TWO M-CLASS X-RAY FLARES OF
WHICH THE LARGEST WAS AN M5/1B EVENT MAXING AT 0818UT. MINOR
RADIO BURSTS ACCOMPANIED THIS FLARE WHICH EXHIBITED PARALLEL
RIBBONS AND UMBRAL COVERAGE ACROSS THE LEADER SPOT CON-
TAINING A MAGNETIC DELTA CONFIGURATION. REGIONS 3204 (S28W07)
AND 3210 (N21W16) HAVE PRODUCED SOME MINOR SUBFLARES BUT HAVE
NOT YET SHOWN THE ACTIVITY EXPECTED OF REGIONS OF THEIR SIZE
AND COMPLEXITY. AN ACTIVE PROMINENCE ON THE SOUTH EAST LIMB
AND SURGING AT NORTH EAST 19 INDICATE THE APPROACH OF ADDI-
TIONAL ACTIVE CENTERS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE THROUGHOUT THE
FORECAST PERIOD. ISOLATED X-CLASS EVENTS COULD OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED FOR THE
PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED TO PREDOMINATE
THROUGH THE NEXT 2 DAYS. THE EFFECTS OF TODAY'S SIGNIFICANT FLARE
SHOULD RAISE MAGNETIC LEVELS INTO THE ACTIVE CATEGORY BY THE
THIRD DAY.

III. EVENT PROBABILITIES: 16 JULY - 18 JULY

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 14 JULY 178

ESTIMATED 15 JULY 185

PREDICTED 16-18 JULY 188/192/195

90 DAY MEAN 14 JULY 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 JULY 12 AP 14 JULY 09

ESTIMATED AFR 14 JULY 07 AFR/AP 15 JULY 05/09

PREDICTED AFR/AP 16-18 JULY 08/10 12/12 18/15

SOLTERWARN

BT

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 196B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z
TO 15/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST
9 HOURS. REGION 3203 (S08W16) HAS BEEN RESPONSIBLE FOR THE MORE
ENERGETIC FLARES OBSERVED, AN M2/1B FLARE AT 1642Z AND A
C6/SB AT 1456Z. MINOR DISCRETE FREQUENCY RADIO BURSTS AND SHORT
WAVE FADES TO 15 MHZ ACCOMPANIED THE M2 EVENT. THREE NEW REGIONS
WERE NUMBERED TODAY. REGION 3216 (S03W64), 3217 (N14E70) AND 3218
(N12E83).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE THROUGHOUT THE FORECAST PERIOD. ISOLATED X-CLASS
EVENTS COULD OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ESSENTIALLY QUIET DURING THE PAST 9 HOURS. MORE OR LESS
QUIET CONDITIONS SHOULD PREVAIL FOR THE NEXT TWO DAYS. M-CLASS
ACTIVITY IN REGION 3203 IS EXPECTED TO RAISE MAGNETIC ACTIVITY
LEVELS BY THE THIRD DAY.

III. EVENT PROBABILITIES 16 JULY - 18 JULY

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JULY 187

PREDICTED 16-18 JULY 188/192/195

90-DAY MEAN 15 JULY 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JULY 06/09

ESTIMATED AFR/AP 15 JULY 06/09

PREDICTED AFR/AP 16-18 JULY 08/10 - 12/12 - 18/15

SOLTERWARN

BT