

HRUS 1 BOU 151300

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 UNSETLED FOR THE  
PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED TO PREDOMINATE  
THROUGH THE NEXT 2 DAYS. THE EFFECTS OF TODAYS 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

DCAF 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

I A. 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).

I B. 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

SOLAR TERRAIN

BT