

HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 1914

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 10 JULY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

09/1200Z TO 10/1200Z:

SOLAR ACTIVITY WAS LOW EXCEPT FOR AN M2/1B EVENT AT 1310Z FROM REGION 3203 (S08E62). MINOR RADIO BURSTS AND A STRONG SHORT-WAVE FADE ACCCOMPANIED THIS FLARE. SLOW GROWTH IS REPORTED IN THIS SMALL CLASS E SPOT GROUP. REGION 3204 (S27E58) IS A SIGNIFICANT REGION AT CLASS D BUT LITTLE EVOLUTION HAS BEEN DETECTED. SPOTS AND A MINOR FLARE INDICATE A REJUVENATION OF REGION 3205 (S26E14) WHICH IS THE RETURN OF REGION 3157 OF LAST MONTH. FILAMENTS ARE INSTABLE NEAR A LARGE CORONAL HOLE IN NW QUADRANT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO SLOWLY INCREASE WITH GROWTH IN REGION 3203 AND ADDITIONAL REGIONS APPEARING AT EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO ONLY SLIGHTLY UNSETLED TODAY. INTERPLANETARY RADIO SCINTILLATION HAS INCREASED, INDICATING THE APPROACH OF THE EXPECTED TURBULENT SOLAR WIND STREAM. ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT TWO DAYS.

III. EVENT PROBABILITIES: 11-13 JULY

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 02/02/02

RCAE GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 09 JULY 148

ESTIMATED 10 JULY 151

PREDICTED 11-13 JULY 154/159/163

90-DAY MEAN 09 JULY 183

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 JULY 11 AP 09 JULY 1/10

ESTIMATED AFR 09 JULY 09 AFR/AP 10 JULY 10/10

PREDICTED AFR/AP 11-13 JULY 20/15 18/10 10/12

COTTERWARN

BT

HFUS 13 R0U 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDE NUMBER 191P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 10 JULY 1981

I.A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z  
TO 10/2100Z:

SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD. A M1/SR  
OCCURRED AT 1518UT FROM REGION 3203 (S08E55), A RADIO BURST OF  
110 EU WAS REPORTED AT 2695 MHZ. REGION 3204 (S27E53) PRODUCED  
A C7/1N AT 1547UT, NO RADIO REPORTED. REGION 3199 (S07W20) IS  
NOW A D-TYPE GROUP WITH STRONG ARCH FILAMENTS. NEW REGIONS TODAY  
ARE 3206 (N12W06), 3207 (N22E14) AND 3208 (N14E49) ALL SIMPLE  
GROUPS.

I.B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE DURING  
THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO  
BE ACTIVE DURING THE FIRST PART OF THE FORECAST AND SLIGHTLY  
UNSETLED DURING THE REMAINDER OF THE FORECAST.

III. EVENT PROBABILITIES 11-13 JULY

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 90/90/90

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JUL 149

PREDICTED 11-13 JUL 154/159/163

90-DAY MEAN 110 JUL 182

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 09 JUL 08/10

ESTIMATED AFR/AP 10 JUL 05/10

PREDICTED AFR/AP 11-13 JUL 20/15 - 10/10 - 10/12

SOLARFLARE

BT