

HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 191A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 10 JULY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200Z 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 ACCOMPANIED THIS FLARE. SLOW GROWTH IS REPORTED IN
THIS SMALL CLASS E SPOT GROUP. REGION 3204 (S27E58) IS A SIG-
NIFICANT REGION AT CLASS D BUT LITTLE EVOLUTION HAS BEEN DETEC-
TED. SPOTS AND A MINOR FLARE INDICATE A REJUVENATION OF REGION
3205 (S26E14) WHICH IS THE RETURN OF REGION 3157 OF LAST MONTH.
FILAMENTS ARE UNSTABLE NEAR A LARGE CORONAL HOLE IN NW QUAD-
RANT.

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 UNSETTLED
TODAY. INTERPLANETARY RADIO SCINTILLATION HAS INCREASED, IN-
DICATING 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

PCAF 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 10

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

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

SOLTERWARN

BT

WFUS 3 RQU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 191P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 10 JULY 1981

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

SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD. A M1/SP OCCURRED AT 1512UT 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.

IB. 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 UNSETTLED DURING THE REMAINDER OF THE FORECAST.

III. EVENT PROBABILITIES 11-13 JULY

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JUL 149

PREDICTED 11-13 JUL 154/159/163

90-DAY MEAN 10 JUL 182

V. GEOMAGNETIC A 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

SOLTERWARM

BT