

HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 223A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 11 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
10/1200Z TO 11/1200Z:

REGION 3257 (S10W22) PRODUCED AN M4/2R AT 110148Z (MAX) AND
ANOTHER AT 110750Z (MAX). PHYSICAL CHANGES IN 3257 HAVE
BEEN NEGLIGIBLE AS IT CONTINUES TO DOMINATE THE DISK IN BOTH
APPEARANCE AND ACTIVITY. THE SECOND LARGEST REGION ON THE DISK,
3256 (N10W29), HAS SIMPLIFIED TO A SINGLE H TYPE SPOT AND WILL
APPARENTLY CONTINUE TO DECAY.

IB. SOLAR ACTIVITY FORECAST:

REGION 3257 SHOULD CONTINUE TO PRODUCE "M" CLASS FLARES ON A
DAILY BASES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. QUIET TO
UNSETTLED CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES: 12 AUG - 14 AUG

CLASS M 05/85/85

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 10 AUG 177

ESTIMATED 11 AUG 185

PREDICTED 12-14 AUG 190/193/197

90 DAY MEAN 11 AUG 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 AUG 09 AP 10 AUG 14

ESTIMATED AFR 10 AUG 19 AFR/AP 11 AUG 10/09

PREDICTED AFR/AP 12-14 AUG 08/12 14/12 11/12

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HFUS 3 ROU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLO

SDF NUMBER 223P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z
TO 11/2100Z:

SOLAR ACTIVITY HAS CONTINUED AT MODERATE LEVELS. REGION 3257
(S10W28) PRODUCED ITS THIRD CLASS M FLARE THUS FAR TODAY AT
1451 UT (MAX). THIS M3/1P FLARE WAS ACCOMPANIED BY MINOR CM BURSTS
AND PRODUCED SIGNIFICANT SHORT WAVE FADES AT 15MHZ. REGION 3257
RETAINS ITS HIGH FIELD STRENGTHS AND MAGNETIC COMPLEXITY. SOME
EMERGING FLUX HAS BEEN NOTED SLIGHTLY NORTH OF 3257 BUT IS NOT
EXPECTED TO AFFECT FLARE PRODUCTION AT THIS TIME. A NEW REGION
(NUMBERED 3265 AND LOCATED AT S18E85) IS ROTATING INTO VIEW AND IS
BELIEVED RESPONSIBLE FOR THE INCREASE IN 10 CM FLUX.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN AT MODERATE LEVELS. REGION 3257
SHOULD CONTINUE TO PRODUCE THE MAJORITY OF CLASS M FLARES. REGION
3265 IS A RELATIVELY YOUNG REGION WHOSE APPARENT RADIO BRIGHTNESS
INDICATES M FLARE CAPABILITIES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO NEARLY ACTIVE. UNSETTLED
TO ACTIVE CONDITIONS ARE EXPECTED TO PREDOMINATE FOR THE NEXT THREE
DAYS WITH AUGUST 13 - 14 BEING THE MOST DISTURBED.

III. EVENT PROBABILITIES: 12 - 14 AUGUST

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 11 AUGUST 199

PREDICTED 12 - 14 AUGUST 200/205/210

90 DAY MEAN 11 AUGUST 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 AUGUST 20/14

ESTIMATED AFR/AP 11 AUGUST 14/11

PREDICTED AFR/AP 12 - 14 AUGUST 10/20 14/25 16/25

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