

HFUS 1 POU 221300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 234A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 22 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
21/1200Z TO 22/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE SINCE 21/1200UT DUE TO AN
M1/1B FLARE IN REGION 3266 (S15W58) AT 21/1724 UT. THIS
REGION ALSO PRODUCED A C8/SB AT 22/0658UT, SUGGESTING CON-
TINUED FLARE POTENTIAL. REGION 3284 (S10E10) HAS STRENGTHENED
ITS MAGNETIC GRADIENT AND DEVELOPED AN ISOLATED POLE NEAR ITS
LEADER SPOTS. INCREASED ACTIVITY IN REGION 3284 SHOULD RESULT
NEW REGION 3283 (N11E38) GREW RAPIDLY AND DEVELOPED AFS, INDI-
CATING IT WILL PROBABLY CONTINUE TO GROW INTO AN ERUPTIVE
REGION.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE DUE TO THE POTEN-
TIAL PROVIDED BY REGIONS 3279 (S16W26) AND 3266 AND THE FLARE
POTENTIAL APPARENT IN REGION 3284.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS.
ACTIVE CONDITIONS ARE EXPECTED FOR 23-24 AUG IN RESPONSE TO THE
M4/2B FLARE THAT OCCURRED 21/0831UT AND DUE TO RECURRENCE.
UNSETTLED CONDITIONS ARE EXPECTED TO RETURN 25 AUG.

III. EVENT PROBABILITIES: 23 AUG - 25 AUG

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 21 AUG 261

ESTIMATED 22 AUG 260

PREDICTED 23-25 AUG 258/254/248

90 DAY MEAN 21 AUG 180

V. GEOMAGNETIC A INDICES

OBSERVED AFR 20 AUG 9 AP 21 AUG 17

ESTIMATED AFR 21 AUG 12 AFR/AP 22 AUG 14/20

PREDICTED AFR/AP 23-25 AUG 25/35 20/25 10/15

SOLTERWARN

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HFUS 3 R011 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 234B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
22/1200Z TO 22/2100Z:

SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. ONLY
SMALL C-CLASS EVENTS HAVE BEEN REPORTED. THE LARGEST WAS A
C5/1N FROM REGION 3292 (S06E56) AT 1456UT. NEW REGIONS TODAY
ARE 3294 (S02E08), 3295 (N16E76) AND 3296 (N08W65).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST
PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PERIOD.
THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE IN RESPONSE
TO THE M4/2B EVENT THAT OCCURRED 21/0813UT. UNSETTLED CON-
DITIONS ARE EXPECTED EARLY ON 25 AUGUST.

III. EVENT PROBABILITIES: 23-25 AUG

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/10

SCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 AUG 259

PREDICTED 23-25 AUG 258/254/248

90 DAY MEAN 22 AUG 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 AUG 10/17

ESTIMATED AFR/AP 22 AUG 11/16

PREDICTED AFR/AP 23-25 AUG 25/35 20/25 10/15

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