

HFUS 1 BOU 131230

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 225A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 13 AUG 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
12/1200Z TO 13/1200Z:

SOLAR ACTIVITY REMAINS HIGH. REGION 3257 (S09W50) RETAINS ALL
OF ITS COMPLEXITY AND SINCE 12/1200Z HAS PRODUCED THE FOLLOWING
EVENTS: M₂/1B 12/2101Z; M₁/SB 12/2216Z; M₁/SB 13/0030Z; M₃/1B
13/0248Z; M₁/1B 13/0716Z; M₅/SB 13/0801Z. REGION 3266 (S16E66)
HAS NOT YET PRODUCED SIGNIFICANT FLARE ACTIVITY BUT HAS
ROTATED FAR ENOUGH ONTO THE DISK TO REVEAL THAT IT IS A LARGE,
COMPLEX "F" TYPE SPOT GROUP. REGION 3258 (S24W76) IS NOW A
MODERATE SIZE CLASS D SPOT GROUP AND WITH CONTINUED DEVELOPMENT
MAY BE A SIGNIFICANT REGION ON ITS NEXT TRANSIT. THE FIVE
REGIONS NUMBERED YESTERDAY REMAIN SMALL AND SIMPLE.

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE TO HIGH UNTIL AT
LEAST WEST LIMB PASSAGE OF 3257.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AND SHOULD
REMAIN SO UNTIL THE EXPECTED IMPACT FROM THE X2/1B ON 12 AUG
BRINGS DISTURBED CONDITIONS ON 14 AUG.

IV. EVENT PROBABILITIES: 14 - 16 AUG

CLASS M 95/95/95

CLASS X 25/25/15

PROTON 25/25/15

PCAF YELLOW

V. OTTAWA 10.7 FLUX

OBSEVED 12 AUG 198

ESTIMATED 13 AUG 205

PREDICTED 14-16 AUG 210/215/219

90 DAY MEAN 12 AUG 176

VI. GEOMAGNETIC INDICES

OBSEVED AFR 11 AUG 16 AP 12 AUG 10

ESTIMATED AFR 12 AUG 10 AFR/AP 13 AUG 08/15

PREDICTED AFR/AP 14-16 AUG 25/25 17/15 10/10

SOLTERWARN

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HFUS 3 BOU 132200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 225B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 13 AUGUST 1981
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z
TO 13/1200Z.
SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD. REGION 3257
(S09W57) HAS CONTINUED TO ACCOUNT FOR VIRTUALLY ALL ACTIVITY.
THE ONLY M-CLASS EVENT WAS AN M1/SB AT 1359 UT FROM REGION 3257.
REGION 3266 (S16E59) IS LARGE (1500 MILLIONTHS) BUT HAS BEEN QUIET.
IB. SOLAR ACTIVITY FORECAST:
SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH. BOTH REGIONS
3257 AND 3266 ARE CAPABLE OF M-CLASS ACTIVITY.
II. GEOPHYSICAL SUMMARY AND FORECAST:
THE GEOMAGNETIC FIELD WAS GENERALLY QUIET TODAY. THE SHOCK FROM THE
X2.1B FLARE OF AUGUST 12 IS EXPECTED TO BRING ACTIVE CONDITIONS
ON 14 - 15 AUGUST.
III. EVENT PROBABILITIES: 14 - 16 AUGUST
CLASS M 95/95/95
CLASS X 25/25/15
PROTON 25/25/15
PCAF YELLOW
IV. OTTAWA 10.7 FLUX
OBSERVED 13 AUG 203
PREDICTED 14 - 16 AUGUST 210/216/219
90 DAY MEAN 13 AUG 176
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 12 AUG 11/10
ESTIMATED AFR/AP 13 AUG 08/12
PREDICTED AFR/AP 14 - 16 AUG 25/25 17/15 10/10
SOLARFLARE WARN
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