

HFUS 1 BOU 061300  
FROM SPACE ENVIRONMENT SERVICES CENTER. BOULDER, COLORADO  
SDF NUMBER 218A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
05/1200Z TO 06/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3257 (S09E48) HAS BEEN THE SOURCE OF VIRTUALLY ALL ACTIVITY OBSERVED. ASIDE FROM SEVERAL C CLASS XRAY EVENTS DISPLAYING SUBFLARE LEVELS OPTICALLY, THIS REGION PRODUCED AN M1/1B MAXIMUM AT 06/0824Z. AN IMPACT FLARE ASSOCIATED WITH A DISAPPEARING FILAMENT WAS OBSERVED AT S20E50, TO THE SOUTH OF REGION 3257. REGION 3247 (N17W54) IS A DECLINING EKI GROUP WITH A SIGNIFICANT GRADIENT AND COULD PRODUCE. REGION 3257 APPEARS TO POSSESS THE REMAINING POTENTIAL, HAS STABILIZED, IS MAGNETICALLY COMPLEX WITH SIGNIFICANT GRADIENTS AND AS MANY AS THREE DELTAS. REMAINING GROUPS APPEAR STABLE AND SIMPLE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE, DEPENDING ON REGION 3257. PERIODS OF QUIESCENCE ARE LIKELY, BUT A LARGE EVENT IS ALSO A REAL POSSIBILITY FROM THIS REGION.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD BECAME DISTURBED TO MINOR STORM LEVELS EARLY ON 06 AUGUST. THE SOLAR WIND HAS MAINTAINED A SLIGHT SOUTHWARD COMPONENT DURING THIS TIME. ACTIVE LEVELS ARE EXPECTED TO PERSIST WELL INTO THE FORECAST INTERVAL.

III. EVENT PROBABILITIES: 07-09 AUG

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 AUG 174

ESTIMATED 06 AUG 178

PREDICTED 07-09 AUG 180/182/184

90 DAY MEAN 05 AUG 179

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 AUG 15 AP 05 AUG 21

ESTIMATED AFR 05 AUG 13 AFR/AP 06 AUG 28/32

PREDICTED AFR/AP 07-09 AUG 18/20 15/15 12/15

SOLTERWARN

BT

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 218B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 06 AUGUST 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW. SMALL SUBFLARES HAVE BEEN REPORTED IN REGION 3257 (S09E43). THIS REGION REMAINS COMPLEX WITH THREE DELTA CONFIGURATIONS IN THE SPOT GROUP. THE PLACE AREA IS COMPACT BUT APPEARS TO BE RELAXING SLIGHTLY. ALL OTHER REGIONS HAVE BEEN QUIET. TWO SMALL NEW REGIONS ROTATED ONTO THE DISK, REGION 3259 (N24E67) AND 3260 (S13E81).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REACH MODERATE LEVELS DURING THE NEXT THREE DAYS WITH MAJOR FLARES POSSIBLE FROM REGION 3257.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS. ACTIVE TO UNSETLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 07 AUGUST - 09 AUGUST

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 AUGUST 170

PREDICTED 07-09 AUGUST 170/171/174

90-DAY MEAN 06 AUGUST 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 AUGUST 16/21

ESTIMATED AFR/AP 06 AUGUST 16/29

PREDICTED AFR/AP 07-09 AUGUST 18/20 - 15/15 - 12/15

SOLTERWARN

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