

HFUS 1 BOU 091230

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 221A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

08/1200Z TO 09/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE. SEVERAL C CLASS SUBFLARES CLIMAXED BY AN M1/SB AT 2029Z (MAX), ALL FROM REGION 3257 (S10E05) CHARACTERIZED ACTIVITY EARLY IN THE PERIOD. MORE RECENTLY REGIONS 3261 (N15W32), 3258 (S26W21), AND ALSO 3257 HAVE CONTRIBUTED MINOR ACTIVITY. SIGNIFICANT DISCRETE FREQUENCY RADIO AT ALL FREQUENCIES ACCOMPANIED EARLY ACTIVITY IN THE PERIOD. REGIONS 3258 AND 3261 ARE GROWING. REGION 3257 IS STABLE AND REMAINS COMPLEX, SHOWING STRONG GRADIENTS. THIS REGION MAY YET PRODUCE A MAJOR FLARE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE DUE TO REGION 3257. ACTIVITY HAS CONTINUED TO SLOW WITH THIS REGION. ADDITIONAL LOW LEVEL ACTIVITY MAY OCCUR IN REGIONS 3258, 3259 (N24E35) AND 3261.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET IN RECENT HOURS. A STORM SUDDEN COMMENCEMENT WITH ACTIVE TO MINOR STORM LEVELS IS STILL EXPECTED ON 09 AUG FOLLOWING THIS FORECAST ISSUE TIME.

III. EVENT PROBABILITIES: 10 - 12 AUG

CLASS M \*85/85/85

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 08 AUG 174

ESTIMATED 09 AUG 175

PREDICTED 10-12 AUG 176/176/176

90 DAY MEAN 08 AUG 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 AUG 09 AP 08 AUG 06

ESTIMATED AFR 08 AUG 04 AFR/AP 09 AUG 28/25

PREDICTED AFR/AP 10-12 AUG 22/25 16/15 12/12

SOLTERWARN

BT

NNNNCOZ

NCZL

NC

NCO

CU

KBOU

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 221B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 09 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 9 HOURS.

REGION 3257 (S10E01) HAS PRODUCED ONLY TWO SMALL CLASS C X-RAY EVENTS. THIS REGION REMAINS VERY COMPLEX BUT NO SIGNIFICANT CHANGES HAVE BEEN REPORTED. SMALL REGIONS 3258 (S24W25) AND 3261 (N15W33) ARE GROWING SLOWLY AND PRODUCED SMALL SUBFLARES TODAY.

A SMALL NEW REGION ROTATED ONTO THE DISK, REGION 3262 (S09E65).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD, WITH AN ISOLATED MAJOR FLARE POSSIBLE IN REGION 3257.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 24 HOURS. ACTIVE CONDITIONS ARE EXPECTED IN THE NEXT 24 HOURS DUE TO RECENT FLARE ACTIVITY IN REGION 3257. SLIGHTLY ENHANCED PROTON LEVELS, BUT STILL BELOW EVENT THRESHOLD, ARE BEING OBSERVED AT SATELLITE ALTITUDES. THIS EVENT IS PROBABLY THE RESULT OF THE M4/2B FLARE IN REGION 3257 AT 07/1916Z.

III. EVENT PROBABILITIES 10 AUGUST - 12 AUGUST

CLASS M 85/85/85

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 AUGUST 176

PREDICTED 10-12 AUGUST 177/179/182

90-DAY MEAN 09 AUGUST 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 AUGUST 03/06

ESTIMATED AFR/AP 09 AUGUST 08/10

PREDICTED AFR/AP 10-12 AUGUST 22/25 - 16/15 - 12/12

SOLTERWARN

BT

NNNN

2230

HQHW1 PHFF 092230

PTROL

91178 10809 14602

11111 12144 12224 99999

NNNNCZO

2233

HXAK PANC 092230

DATBR 25601 10809 02230