

HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 013A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 01 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

31/1200Z TO 01/1200Z:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. HOWEVER REGION 3234 (S11W59) HAS CONTINUED TO PRODUCE NUMEROUS C-CLASS X-RAY FLARES AND IS REPORTED TO BE DEVELOPING A DELTA MAGNETIC CONFIGURATION IN ITS TRAILER PORTION. REGION 3247 (N16E13) HAS SHOWN RAPID SPOT GROWTH, A VIGOROUS ARCH FILAMENT SYSTEM, AND AN ACTIVE INVERSION LINE FILAMENT. SEVERAL C-CLASS FLARES HAVE OCCURRED IN REGION 3253 (S05W86) WHICH IS A DEVELOPING REGION NEARING WEST LIMB PASSAGE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 3234 IS CAPABLE OF PRODUCING SIGNIFICANT FLARES WITH A GOOD POSSIBILITY OF A MAJOR FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED TO PERSIST FOR THE NEXT 36 HOURS, BECOMING PRODOMINATELY UNSETTLED FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 02 AUGUST - 04 AUGUST

CLASS M 80/80/80

CLASS X 30/25/20

PROTON 30/20/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 31 JUL 192

ESTIMATED 01 AUG 183

PREDICTED 02-04 AUG 180/175/160

90 DAY MEAN 31 JUL 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 JULY 13 AP 31 JULY 14

ESTIMATED AFR 31 JULY 12 AFR/AP 01 AUG 20/20

PREDICTED AFR/AP 02-04 AUG 18/15 15/15 09/12

SOLTERWARN

BT

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 213B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 01/2100Z:

SOLAR ACTIVITY HAS BEEN LOW SINCE 1200Z. ONLY AN OCCASIONAL 'C' EVENT IS BEING REPORTED. REGION 3234 (S10W69) HAS DEVELOPED ANOTHER DELTA CONFIGURATION ALTHOUGH LIMB SHORTENING IS NOW MASKING THE APPEARANCE OF ITS COMPLEXITY. REGION 3247 (N17E06) IS GROWING SLOWLY IN WHITE LIGHT AND COULD BE CAPABLE OF SIGNIFICANT ACTIVITY IN THE NEXT DAY OR TWO.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE LOW TO MODERATE BASED ON THE CHANGES IN 3234 AND 3247.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT 24 TO 36 HOURS.

III. EVENT PROBABILITIES: 02 AUG - 04 AUG

CLASS M 80/80/80

CLASS X 30/25/20

PROTON 30/20/10

PCAT YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 01 AUG 176

PREDICTED 02 - 04 AUG 165/160/157

90 DAY MEAN 01 AUG 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 JULY 14/14

3 ESTIMATED AFR/AP 01 AUG 17/25

PREDICTED AFR/AP 02 - 04 AUG 18/15 15/15 09/12

SOLTERWARN

BT