

HFUS 1 BOU 291300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 241A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 29 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 29/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3870 (N15W47), 3876 (N08E18) AND 3879 (S15E44) HAVE BEEN THE MAJOR CONTRIBUTORS OF CLASS C X-RAY FLARES AND MINOR OPTICAL FLARES. REGION 3879 HAS GROWN WHILE THE REST OF THE REGIONS ON THE DISK ARE EITHER STABLE OR IN THE DECLINING PHASE. NEW REGIONS NUMBERED IN THE PAST 24 HOURS ARE 3881 (N09W20) AND 3882 (S02E71). NEITHER OF THESE REGIONS IS IMPRESSIVE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE FORECAST PERIOD. ANY MCCLASS X-RAY FLARE ACTIVITY SHOULD BE ISOLATED IN OCCURENCE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE AND SHOULD REMAIN ACTIVE THROUGHOUT THE FORECAST PERIOD. THIS ACTIVITY IS PROBABLY DUE TO TWO FILAMENTS WHICH DISAPPEARED FROM THE SOLAR DISK. ONE DISAPPEARED ON THE 26TH OF AUGUST AND THE OTHER ON THE 28T OF AUGUST.

III. EVENT PROBABILITIES 30 AUG-01 SEP

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 AUG 178

ESTIMATED 29 AUG 181

PREDICTED 30 AUG-01 SEP 186/191/191

90 DAY MEAN 28 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 AUG 010 AP 28 AUG 013

ESTIMATED AFR 28 AUG 010 AFR/AP 29 AUG 029/041

PREDICTED AFR/AP 30 AUG-01 SEP 019/020-019/020-015/020

SOLTERWARN

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HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 241B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200Z TO 29/2100Z: SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL THIS PERIOD WITH ONLY SMALL C CLASS EVENTS OBSERVED. REGION 3870 (N15W54) HAS EXHIBITED MINOR DECAY IN SPOT AREA DURING THIS PERIOD. NEW REGION NUMBERED TODAY 3883 (S20E64) SIMPLE A TYPE. ALL OTHER REGIONS STABLE OR SLIGHTLY DECAYED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL DURING MOST OF THE FORECAST WITH A CHANCE OF MODERATE CONDITIONS ON 01 SEPTEMBER DUE TO OLD ACTIVE REGIONS EXPECTED TO RETURN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT MINOR STORM LEVELS DURING THIS PERIOD. THE FIELD IS EXPECTED TO CONTINUE AT ACTIVE LEVELS DURING THE FORECAST PERIOD DUE TO FILAMENTS WHICH DISAPPEARED ON 26 AND 28 AUGUST.

III. EVENT PROBABILITIES 30 AUG -01 SEP:

CLASS M 20/20/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 AUG 180

PREDICTED 30 AUG-01 SEP 186/191/191

90 DAY MEAN 29 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 AUG 009/013

ESTIMATED AFR/AP 29 AUG 029/041

PREDICTED AFR/AP 30 AUG-01 SEP 019/025-019/020-015/020

SOLTERWARN

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