

HFUS 1 BOU 081300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 620A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 08 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 08/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3257 (S10E19) PRODUCED ALL ACTIVITY REPORTED. AN M3/2B EVENT OCCURRED AT 07/1916Z (MAX). RECURRENT DISCRETE BURSTS AT ALL FREQUENCIES ACCOMPANIED THIS LONG LASTING EVENT. NO OTHER ACTIVITY HAS BEEN REPORTED BY FORECAST TIME 08 AUG. WEATHER HAS LIMITED OBSERVATIONS, BUT REGION 3257 IS REPORTED STILL VERY COMPLEX WITH MULTIPLE DELTAS. SLIGHT RESTRUCTURING PERHAPS BEGINNING SLOW DECAY IS REPORTED.

REGION 3257 IS THE ONLY REGION OF CONSEQUENCE ON THE VISIBLE DISK.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 3257 HAS SETTLED DOWN TO A SLOW RATE OF ACTIVITY. MAJOR EVENTS REMAIN A POSSIBILITY WITH THIS REGION.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS DECLINED TO QUIET LEVELS IN RECENT HOURS FROM GENERALLY UNSETTLED LEVELS. THE FIELD SHOULD REMAIN NEAR QUIET LEVELS UNTIL APPROXIMATELY 1300Z ON 09 AUGUST WHEN A STORM SUDDEN COMMENCEMENT FOLLOWED BY ACTIVE TO NEAR MINOR STORM LEVELS IS EXPECTED. THE DISTURBANCE IS PREDICTED TO PERSIST FOR A PERIOD OF UP TO 18 HOURS. ACTIVITY LEVELS FOLLOWING WILL DEPEND ON SOLAR ACTIVITY LEVELS ON THE NEXT FEW HOURS.

III. EVENT PROBABILITIES 09-11 AUG

CLASS M 90/90/85

CLASS X 10/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 07 AUG 168

ESTIMATED 08 AUG 165

PREDICTED 09-11 AUG 165/162/160

90-DAY MEAN 07 AUG 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 AUG 15 AP 07 AUG 15

ESTIMATED AFR 07 AUG 09 AFR/AP 08 AUG 07/15

PREDICTED AFR/AP 09-11 AUG 28/25 - 22/25 - 16/15

SOLTERWARN

PT

HFUS 34POU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 1220P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 0200Z 08 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

08/1200Z TO 08/2100Z:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3257 (S10E08) PRODUCED A M1/SB FLARE AT 08/2029UT WITH AN ASSOCIATED RADIO BURST ON ALL FREQUENCIES. THE REGION REMAINS COMPLEX WITH STRONG GRADIENTS IN THE SPOT GROUP BUT SOME DECAY IS EVIDENT. A NEW REGION 3261 (N15W23) DEVELOPED RAPIDLY ON THE DISK AND NOW CONTAINS A SMALL SPOT GROUP OF CLASS/AREA C/40. ALL OTHER REGIONS ARE QUIET.

IB. SOLAR ACTIVITY FORECAST:

Moderate solar activity is expected to continue from Region 3257, with a major event possible in the next three days.

II. GEOPHYSICAL SUMMARY AND FORECAST:

The geomagnetic field has been quiet the past 24 hours.

Minor storm conditions are expected late on 09 August and on 10 August from the M4/2B flare at 07/1916UT.

III. EVENT PROBABILITIES: 09 - 11 AUG

CLASS M 90/90/85

CLASS X 10/10/10

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 08 AUG 174

PREDICTED 09 - 11 AUG 177/181/187

90 DAY MEAN 08 AUG 177

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 07 AUG 09/15

ESTIMATED AFR/AP 08 AUG 04/10

PREDICTED AFR/AP 09 - 11 AUG 28/25 22/25 16/15

SOLTERWARN

PT