

HFUS 1 BOU 081300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 251A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 08 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 08/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT OF THE PAST 24 HOURS WAS C6/1N FROM REGION 3895(S10E42) AT 07/1829Z. THIS REGION IS NOW THE MOST IMPORTANT ON THE SOLAR DISK. GROWTH OF SMALL SPOTS AND PLAGE SURROUNDING THE LARGE SYMMETRIC SPOT HAS INCREASED THE MAGNETIC COMPLEXITY OF THIS REGION. A STRONG EMERGING FLUX AREA NEAR THE SPOTS OF REGION 3885(N11W38) HAS ALSO CREATED A SMALL COMPLEX MAGNETIC AREA. SIGNIFICANT GROWTH HAS OCCURRED IN SMALL REGIONS 3888(N25W74) AND 3897(N20W40). FURTHER DECAY HAS TAKEN PLACE IN FORMERLY-ACTIVE REGION 3886(N14W20). A FILAMENT ERUPTED FROM N17W74 AT 0827Z. THE CORONA ABOVE THE NORTH CENTRAL PORTION OF THE SOLAR DISK IS UNDERGOING RE-STRUCTURING AS INDICATED BY CHANGES IN CHROMOSPHERIC NEUTRAL-LINE PATTERNS AND FILAMENT ACTIVITY NEAR REGION 3894(N16E31).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. CLASS M ACTIVITY MAY OCCUR IN REGION 3895 SHOULD ITS PRESENT EVOLUTIONARY TREND CONTINUE. ADDITIONAL ACTIVE REGIONS ARE EXPECTED AT EAST LIMB DURING THE NEXT 48 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MAJOR GEOMAGNETIC STORM ENDED AT APPROXIMATELY 0000Z. CONDITIONS HAVE BECOME QUIET SINCE THEN. UNSETTLED TO QUIET CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 09 SEP-11 SEP

CLASS M 40/40/40

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 SEP 174

ESTIMATED 08 SEP 174

PREDICTED 09 SEP-11 SEP 172/170/167

90 DAY MEAN 07 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 SEP 139 AP 07 SEP 067

ESTIMATED AFR 07 SEP 048 AFR/AP 08 SEP 010/015

PREDICTED AFR/AP 09 SEP-11 SEP 012/015-007/015-007/015

SOLTERWARN

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HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 251B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 08/2100Z: SOLAR ACTIVITY HAS REMAINED LOW WITH EVENTS CONFINED TO LOW LEVEL CLASS C/SUBFLARES. REGION 3886 (N14W26) CONTINUES ITS STEADY DECAY TREND SINCE THE MAJOR FLARE ON 04 SEPTEMBER. NEW SUNSPOTS CONTINUE TO EMERGE IN REGION 3895 (S10E36). EXCEPT FOR AN OPENING IN THE SW QUADRANT, BOTH SPOTS AND PLAGE ENCIRCLE THE LARGE PENUMBRAL LEADER. STRUCTURAL CHANGES IN THE OTHER DISK REGIONS HAVE NOT BEEN SIGNIFICANT. REGION 3899 (S11E10) HAS EMERGED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. CLASS M ACTIVITY MAY OCCUR IN REGION 3895 SHOULD ITS PRESENT EVOLUTIONARY TREND CONTINUE. ADDITIONAL ACTIVE REGIONS ARE EXPECTED AT EAST LIMB DURING THE NEXT 48 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. FOR THE NEXT 24-36 HOURS, THE FIELD IS EXPECTED TO BE UNSETTLED WITH SHORT PERIODS AT THE ACTIVE LEVEL. FOLLOWING THIS PERIOD, THE FIELD IS EXPECTED TO BE QUIET TO UNSETTLED.

III. EVENT PROBABILITIES 09 SEP-11 SEP

CLASS M 40/40/40

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 SEP 176

PREDICTED 09 SEP-11 SEP 175/172/165

90 DAY MEAN 08 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 SEP 047/067

ESTIMATED AFR/AP 08 SEP 009/015

PREDICTED AFR/AP 09 SEP-11 SEP 012/015-007/014-007/014

SOLTERWARN

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