

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	1067
ESTIMATED AFR	07 SEP	1048	AFR/AP	08 SEP	1010/015
PREDICTED AFR/AP	09 SEP-11 SEP	012/015-007/015	-007/015		

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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 PLAGUE 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 UNSETLED. FOR THE NEXT 24-36 HOURS, THE FIELD IS EXPECTED TO BE UNSETLED WITH SHORT PERIODS AT THE ACTIVE LEVEL. FOLLOWING THIS PERIOD, THE FIELD IS EXPECTED TO BE QUIET TO UNSETLED.

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

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