

HFUS 1 BOU 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 252A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 09/1200Z: SOLAR ACTIVITY WAS LOW. SMALL FLARES HAVE BEEN OCCURRING WITH INCREASING FREQUENCY AND INTENSITY IN BOTH REGION 3885(N11W51) AND REGION 3895(S10E29). GROWTH OF SMALL SPOTS NEAR THE OLD LEADER SPOTS OF 3885 HAS CREATED A SMALL DELTA CONFIGURATION. PLAGE AND SMALL SPOTS NOW NEARLY ENCIRCLE THE LARGE SYMMETRIC SPOT IN REGION 3895. THE NEUTRAL LINE AND PLAGE STRUCTURES ARE TAKING ON AN APPEARANCE SIMILAR TO PAST SOURCES OF PROTON FLARES. THE LARGEST EVENT OF THE DAY OCCURRED IN THIS REGION AT 0034Z (C9/2N) ACCOMPANIED BY TYPE II AND TYPE IV RADIO EMISSION. SURGES AT SE10 HERALD THE APPEARANCE OF YET ANOTHER SIGNIFICANT ACTIVITY CENTER. REGION 3886(N14W33) HAS FURTHER SIMPLIFIED AND IT HAS BEEN INACTIVE.

IB. SOLAR ACTIVITY FORECAST: ACTIVITY IN REGION 3895 IS EXPECTED TO INCREASE TO MODERATE DURING THE NEXT THREE DAYS. PROTON EMISSION IS EXPECTED SHOULD THE XRAY FLARE INTENSITY REACH M5. CLASS M EVENTS MAY OCCUR IN REGION 3885 IF THERE IS ADDITIONAL GROWTH.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED UNTIL AN UNEXPECTED SUDDEN COMMENCEMENT AT 0105Z BEGAN A MINOR STORM. THE CAUSE OF THIS DISTURBANCE IS UNKNOWN. UNSETTLED CONDITIONS, WITH SOME PERIODS OF QUIET, ARE EXPECTED FOR THE NEXT 36 HOURS. ACTIVE CONDITIONS ARE LIKELY LATE ON 11 SEPTEMBER, WITH MINOR STORM CONDITIONS DEVELOPING THE NEXT DAY AS A RESULT OF FLARE AND CORONAL TRANSIENTS.

III. EVENT PROBABILITIES 10 SEP-12 SEP

CLASS M 60/70/80

CLASS X 10/10/20

PROTON 10/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 SEP 176

ESTIMATED 09 SEP 176

PREDICTED 10 SEP-12 SEP 172/168/168

90 DAY MEAN 08 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 SEP 047 AP 08 SEP 011

ESTIMATED AFR 08 SEP 009 AFR/AP 09 SEP 034/030

PREDICTED AFR/AP 10 SEP-12 SEP 010/015-015/015-035/025

SOLTERWARN

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HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 252B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 09 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200Z TO 09/2100Z: AFTER A SURGE OF FLARE ACTIVITY FROM
REGIONS 3885 (N11W58) AND 3895 (S11E22) DURING THE FIRST HALF
OF THIS ZULU DAY, THE SUN HAS BECOME REMARKABLY QUIET DURING
THE PAST NINE HOURS. THE SPORADIC FLARE ACTIVITY IN THE ABOVE
TWO REGIONS HAS BEEN COINCIDENT WITH THE EMERGENCE AND DECAY OF
ANOMOLOUS SUNSPOTS AROUND THE LEADING SUNSPOTS OF THESE
REGIONS. REGIONS 3900 (S15W52) AND 3901 (S11E77) WERE ADDED
TODAY. SURGING HAS BEEN OCCURRING IN REGION 3901 AND THESE HAVE
CORRELATED WITH LOW LEVEL CLASS C X-RAY BURSTS. OTHER DISK
REGIONS ARE STABLE AND/OR DECAYING.

IB. SOLAR ACTIVITY FORECAST: ACTIVITY FROM REGION 3895 IS
EXPECTED TO INCREASE TO A MODERATE LEVEL DURING THE NEXT THREE
DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT MINOR STORM LEVEL THIS ZULU DAY. THE FIELD IS EXPECTED
TO BE STRONGLY UNSETTLED TO ACTIVE THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 10 SEP-12 SEP

CLASS M 60/70/80

CLASS X 10/10/20

PROTON 10/10/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 SEP 177

PREDICTED 10 SEP-12 SEP 176/175/171

90 DAY MEAN 09 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 SEP 014/011

ESTIMATED AFR/AP 09 SEP 034/030

PREDICTED AFR/AP 10 SEP-12 SEP 015/020-015/015-015/015

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