

HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 253A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 10 SEP 1982.

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 10/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 3885 (N11W66) PRODUCED THE LARGEST EVENT A C6/1N AT 10/0756UT. MINOR RADIO WAS OBSERVED WITH THIS EVENT. REGION 3901 (S12E72) IS NOW A "D" TYPE GROUP AND HAS PRODUCED SEVERAL SMALL FLARES THIS PERIOD. MINOR DECAY HAS BEEN REPORTED REGION 3885 IN BOTH PLAGE SIZE AND SPOT NUMBER. REGION 3895 (S13E13) IS THE MOST MAGNETICALLY COMPLEX GROUP ON THE DISK. BETA GAMMA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW AS MOST OF THE REGIONS ARE STABLE OR LITTLE CHANGED. REGIONS 3901 AND 3885 MAY BECOME "M" CLASS EVENT PRODUCERS IF STRUCTURAL CHANGES OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING MOST OF THE PAST 24 HOURS HOWEVER THE FIELD HAS BEEN QUIET FROM 10/0900UT. THE FIELD IS EXPECTED TO BE ONLY SLIGHTLY UNSETTLED UNTIL LATE ON 12 SEPTEMBER WHEN THE EFFECTS OF THE EVENT OF 09/0012UT AND A SMALL CORONAL NOW ONE DAY PAST CENTERAL MERIDIAN, ARE REALIZED AND THE GEOMAGNETIC FIELD BECOMES ACTIVE FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 11 SEP-13 SEP

CLASS M 30/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 SEP 177

ESTIMATED 10 SEP 172

PREDICTED 11 SEP-13 SEP 171/170/170

90 DAY MEAN 09 SEP 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 SEP 014 AP 09 SEP 030

ESTIMATED AFR 09 SEP 034 AFR/AP 10 SEP 009/013

PREDICTED AFR/AP 11 SEP-13 SEP 012/015-020/025-015/020

SOLTERWARN

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HFUS 3 BOU 102200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 253B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 10/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3901(S12E66) WAS NEW ON THE DISK ON 09 SEPT. THIS REGION HAS BEEN THE SOLE SOURCE OF ACTIVITY REPORTED THIS PERIOD. THE REGION IS DIFFICULT TO ANALYSE DUE TO POSITION BUT APPEARS TO BE A MAGNETICALLY COMPLEX, PLAGE ENHANCED, COMPACT D CLASS GROUP. EVENTS OBSERVED ARE A C3/SN AT 10/1722Z AND SF FLARES ONE OF 1 HOUR DURATION AT 10/1616Z AND ANOTHER AT 10/1758Z. TWO SMALL REGIONS DEVELOPED ON THE DISK TODAY, REGIONS 3902(S21E14), AND 3903(N10W06).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. ISOLATED M CLASS FLARES COULD OCCUR IN REGION 3895(S10E07) AND POSSIBLY IN REGION 3901.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. ACTIVITY IS EXPECTED TO CONTINUE AT LOW UNSETLED TO QUIET LEVELS INTO 12 SEPT. FLARE INDUCED, DISAPPEARING FILAMENT AND CORONAL HOLE EFFECTS ARE ALL CANDIDATES AS CAUSES FOR MINOR STORM CONDITIONS EXPECTED TO DEVELOP DURING THAT UT DAY.

III. EVENT PROBABILITIES 11 SEP-13 SEP

CLASS M 30/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEP 163

PREDICTED 11 SEP-13 SEP 168/170/172

90 DAY MEAN 10 SEP 169

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 SEP 040/030

ESTIMATED AFR/AP 10 SEP 012/013

PREDICTED AFR/AP 11 SEP-13 SEP 012/015-020/025-015/020

SOLTERWARN

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