

HFUS 1 BOU 071300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 280A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 07 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 07/1200Z: SOLAR ACTIVITY WAS MODERATE THIS PERIOD AS REGION 3922 (N14W93) PRODUCED A M2, OPTICAL WAS A BRIGHT SURGE AT NW14, AT 06/2256UT ONLY MINOR RADIO OBSERVED WITH THIS EVENT. ALL REGIONS ON THE VISIBLE DISK ARE SMALL SIMPLE GROUPS, THE LARGEST IS 3932 (S13E15) WHICH IS A "C" TYPE. MINOR SURGES CONTINUE IN PROGRESS ON THE NORTH WEST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THIS FORECAST PERIOD. REGIONS DUE TO RETURN DURING THIS PERIOD WERE SMALL AND PROCUCED ONLY MINOR EVENTS LAST ROTATION. REGION 3925 (N07E40) HAS EXHIBITED RAPID GROWTH THIS PERIOD HOWEVER IT STILL REMAINS A "B" TYPE GROUP.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT MINOR STORM LEVELS. THE CURRENT DISTURBANCE MAY BE DUE TO A SMALL CORONAL HOLE WHICH IS ON IT'S SECOND ROTATION OR A SOLAR SECTOR BOUNDARY WHICH IS ALSO IN THE PROPER POSTION TO PRODUCE THE CURRENT GEOPHYSICAL EFFECTS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED 08 TO 10 OCTOBER.

III. EVENT PROBABILITIES 08 OCT-10 OCT

CLASS M 10/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 OCT 152

ESTIMATED 07 OCT 130

PREDICTED 08 OCT-10 OCT 125/122/119

90 DAY MEAN 06 OCT 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 OCT 006 AP 06 OCT 021

ESTIMATED AFR 06 OCT 018 AFR/AP 07 OCT 025/030

PREDICTED AFR/AP 08 OCT-10 OCT 013/015-003/010-010/010

SOLTERWARN

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KBO U

HFUS 3 BOUL 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 280B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 07 OCTOBER 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 071200Z TO 072100Z: SOLAR ACTIVITY SINCE 071200Z HAS BEEN LOW. REGION 3938 (N23E35) HAS AN ARCH FILAMENT SYSTEM WITH POINT BRIGHTENINGS AS IT CONTINUES ITS SLOW GROWTH. A SMALL BIPOLAR REGION HAS DEVELOPED AHEAD OF 3937 (S12E09), IS NUMBERED 3939 (S12E07) AND IS BELIEVED TO BE OF REVERSED POLARITY. REGION 3932 IS SIMPLIFYING MAGNETICALLY. THE REST OF THE DISK IS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. NONE OF THE RETURNING REGIONS ARE EXPECTED TO BE ENERGETIC.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS. THESE CONDITIONS WERE PROBABLY PRECIPITATED BY A SECTOR BOUNDARY AND SHOULD DIMINISH TO GENERALLY UNSETTLED CONDITIONS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 08 OCTOBER - 10 OCTOBER

CLASS M 10/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 OCTOBER 140

PREDICTED 08-10 OCTOBER 125/122/119

90-DAY MEAN 07 OCTOBER 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 OCTOBER 17/21

ESTIMATED AFR/AP 07 OCTOBER 28/30

PREDICTED AFR/AP 08-10 OCTOBER 13/15 - 03/10 - 10/10

SOLTERWARN

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