

HFUS 1 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDE NUMBER 278A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 05 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24 HOURS. REGION 3922 (N14W69) PRODUCED THE LARGEST EVENT THIS PERIOD A C6/SN AT 24/1742UT, NO SIGNIFICANT RADIO WAS OBSERVED WITH THE EVENT. A VERY SLOW RISING C4 EVENT, NO OPTICAL CORRELATION, STARTED AT 05/0910UT WITH MAXIMUM AT 05/1033UT. REGION 3922 CONTINUES WITH A WEAK DELTA AND HAS SHOWN POINT BRIGHTENINGS THIS PERIOD. REGION 3930 (N13W59) IS SLIGHTLY LARGER THIS PERIOD BUT HAS SIMPLIFIED MAGNETICALLY AND IS NOW A BETA. THE FILAMENT WHICH CONNECTS REGIONS 3922 AND 3930 HAS BEEN REPORTED AS ACTIVE THIS PERIOD. THE REST OF THE REGIONS ARE REPORTED AS STABLE OR SLIGHTLY DECAYED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE AS REGIONS 3922, 3919 (S12W86) AND 3930 APPEAR CAPABLE OF AN ISOLATED M-CLASS EVENT DURING THE NEXT 36 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THIS PERIOD. UNLESS A MAJOR SOLAR EVENT OCCURS THE FIELD IS EXPECTED TO CONTINUE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 OCT-08 OCT

CLASS M 50/40/15

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 OCT 184

ESTIMATED 05 OCT 175

PREDICTED 06 OCT-08 OCT 166/155/140

90 DAY MEAN 04 OCT 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 OCT 009 AP 04 OCT 014

ESTIMATED AFR 04 OCT 011 AFR/AP 05 OCT 011/015

PREDICTED AFR/AP 06 OCT-08 OCT 008/010-012/010-008/010

SOLTERWARN

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NNNCVZGVZL VZU UU

KBOU

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 278

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 05 OCTOBER 1982

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 05/2100Z : SOLAR ACTIVITY IS LOW. REGIONS 3922 (N14W75) AND 3930 (N13W66) ARE NEARING WEST LIMB PASSAGE AND THEIR DEPARTURE WILL LEAVE THE DISK VOID OF ANY REGIONS OF SIGNIFICANCE. A SMALL D CLASS GROUP DEVELOPED ON THE DISK TODAY AND WAS NUMBERED 3936 (N09W39). REGION 3937 (N15W20) ALSO DEVELOPED TODAY BUT IT'S ONLY A WEAK B GROUP. THE OTHER DISK REGIONS ARE BASICALLY QUIET.

B. SOLAR ACTIVITY FORECAST : SOLAR ACTIVITY SHOULD BE AT A LOW LEVEL THROUGHOUT THE PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST : THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED. NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 06 OCTOBER - 08 OCTOBER

CLASS M 50/40/15

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 OCTOBER 164

PREDICTED 06-08 OCTOBER 149/137/125

90-DAY MEAN 05 OCTOBER 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 OCTOBER 09/14

ESTIMATED AFR/AP 05 OCTOBER 5 12

PREDICTED AFR/AP 06-08 OCTOBER 08/10 - 12/10 - 08/10

SOLTERWARN

BT