

HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 284A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 11 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 11/1200Z: SOLAR ACTIVITY CONTINUES LOW. ANOTHER DAY HAS PASSED WITHOUT THE XRAY INTENSITY EXCEEDING C1. THE MOST ACTIVE-APPEARING REGION ON THE DISK IS REGION 3938(N22W12) WITH ITS SMALL DAI SPOT GROUP AND NUMEROUS SPOTS. ITS MAGNETIC CONFIGURATION SUGGESTS SHEARING FORCES PRESENT IN THE REGION. IT LIES ADJACENT TO A LARGE CORONAL HOLE THAT HAS PARTIALLY DISAPPEARED IN THE PAST 36 HOURS, WITH THE GREATEST LOSS OF AREA OCCURRING NW OF REGION 3938. NEARBY REGION 3940(N15W17) HAS INCREASED SLIGHTLY IN AREA AND COMPLEXITY. ALL OTHER REGIONS ARE SMALL AND STABLE OR DECLINING. THERE IS NO EVIDENCE OF ADDITIONAL REGIONS RETURNING TO EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE NEXT THREE DAYS. FURTHER DEVELOPMENT OF REGIONS 3938 AND 3940 IS EXPECTED. MODERATE FLARE ACTIVITY MAY OCCUR BEFORE THESE REGIONS COMPLETE THEIR DISK TRANSIT. ADDITIONAL REGIONS ARE EXPECTED AT EAST LIMB DURING THE NEXT FEW DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS ARE EXPECTED FOR ANOTHER 36 HOURS BEFORE COMMENCEMENT OF A MINOR GEOMAGNETIC STORM. THIS DISTURBANCE IS EXPECTED TO LAST LESS THAN 24 HOURS.

III. EVFNT PROBABILITIES 12 OCT-14 OCT

CLASS M 05/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 OCT 135

ESTIMATED 11 OCT 135

PREDICTED 12 OCT-14 OCT 136/139/143

90 DAY MEAN 10 OCT 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 OCT 003 AP 10 OCT 012

ESTIMATED AFR 10 OCT 010 AFR/AP 11 OCT 014/015

PREDICTED AFR/AP 12 OCT-14 OCT 015/015-035/030-015/025

SOLTERWARN

BT

KBOU

HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

S F NUMBER 284B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z TO 11/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. X-RAY BURSTS HAVE BEEN AT C1 OR BELOW WITH SUBFLARES HAVING BEEN REPORTED IN REGIONS 3933 (N23W17) AND 3944 (N09W02). REGION 3933 CONTINUES A SLOW GROWTH WITH MAGNETIC COMPLEXITY INCREASING TO A BETA GAMMA CONFIGURATION. REGION 3947 (N12W14) EMERGED JUST EAST OF REGION 3940 (N13W27); REGION 3940 IS DECAYING. OTHER DISK REGIONS ARE STABLE OR DECAYING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THE FIELD IS EXPECTED TO BE GENERALLY ACTIVE THROUGH THE FORECAST PERIOD WITH A SHORT PERIOD AT MINOR STORM LEVEL COMMENCING LATE ON 12 OCTOBER.

III. EVENT PROBABILITIES 12 OCT - 14 OCT

CLASS M 05/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 OCT 138

PREDICTED 12 OCT - 14 OCT 140/142/143

90 DAY MEAN 11 OCT 167

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 10 OCT 012/012

ESTIMATED AFR/AP 11 OCT 012/015

PREDICTED AFR/AP 12 OCT - 14 OCT 015/015-035/030-015/025

SOLTERWAR N

BT