

HFUS 1 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 309A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 05 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH REGION 3432 (S10W09) DOMINATING THE FLARE PRODUCTION. THIS REGION PRODUCED A M3/SB AT 1827Z WITH 160 FU BURST AT 2695 MHZ AND A M3/SB AT 0830Z WITH 220 FU BURST AT 2695 MHZ. MODERATE SHORT WAVE FADES THROUGH 15 MHZ OCCURRED FOR BOTH THESE FLARES. REGION 3432 CONTINUES IT'S SUNSPOT RESTRUCTURING. HOWEVER, THE THREE DELTA CONFIGURATIONS IN THE LEAD PORTION OF THE REGION REMAIN. REGION 3450 (S21E70) PRODUCED A C6/SN AT 0232Z. THIS REGION IS STILL TOO CLOSE TO THE LIMB FOR ACCURATE EVALUATION. LEARMONTH REPORTS A NEW REGION CROSSING EAST LIMB NEAR N17.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. REGION 3432 IS LIKELY TO PRODUCE A CLASS X FLARE DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS EXPECTED TO BECOME ACTIVE LATER TODAY AND REMAIN GENERALLY ACTIVE THROUGH 08 NOVEMBER.

III. EVENT PROBABILITIES 06 NOV-08 NOV

CLASS M 00/00/00

CLASS X 15/20/20

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 NOV 270

ESTIMATED 05 NOV 285

PREDICTED 06 NOV-08 NOV 290/295/293

90 DAY MEAN 04 NOV 225

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 NOV 005 AP 04 NOV 008

ESTIMATED AFR 04 NOV 005 AFR/AP 05 NOV 012/015

PREDICTED AFR/AP 06 NOV-08 NOV 020/020-014/020-013/020

SOLTERWARN

BT

HXUS BOU 051300

PREDM 09006 09007 09008

PREDX 01506 02007 02008

PREDP 01506 02007 02008

PCAF 00206

TENCM 29006 29507 29808

AFRED 02006 01407 01308

AFAPF 02006 02007 02008

KKK 33344 43323 44333

BT

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KBOU

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 3098

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 05/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE SINCE 05/1200Z. AN M2 XRAY BURST (1242Z MAX) FROM UNKNOWN SOURCES CAUSED SHORTWAVE FADES UP TO 15 MHZ AND HAD SMALL RADIO EMISSIONS THROUGHOUT THE SPECTRUM. SUBFLARES FROM REGIONS 3450(S21E61) AND 3432(S10W17) HAVE DOMINATED THE OPTICAL ACTIVITY ALONG WITH OCCASIONAL SURGING ON THE SOUTHEAST LIMB. REGION 3432 HAS DECLINED DRAMATICALLY IN WHITE LIGHT SINCE YESTERDAY AND THE H ALPHA PLAGE IS NOW TAKING ON A WASHED OUT APPEARANCE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MODERATE DURING THE COMING 24 HOURS BUT THE POTENTIAL IN 3432 IS RAPIDLY DECLINING. OLD REGION 3403 SHOULD RETURN BY THE THIRD DAY OF THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD BECAME UNSETTLED TO SLIGHTLY ACTIVE EARLY TODAY AND LITTLE OR NO CHANGE IS EXPECTED DURING THE NEXT 24 TO 36 HOURS.

III. EVENT PROBABILITIES 06 NOV-08 NOV

CLASS M 90/90/90

CLASS X 15/20/20

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 NOV 259

PREDICTED 06 NOV-08 NOV 260/260/258

90 DAY MEAN 05 NOV 226

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 NOV 005/008

ESTIMATED AFR/AP 05 NOV 014/015

PREDICTED AFR/AP 06 NOV-08 NOV 020/020-014/020-013/020

SOLTERWARN

BT

NNNNZ

11