

ISRTS

HFUS 1 00U 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 313A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 09/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DUE TO AN M1/1B, IN IN REGIONS 3450 (S20E51) AND 3452 (S17E28). THESE TWO REGIONS SHARE A COMMON NEUTRAL LINE AND FLARED SYMPATHETICALLY WITH EACH OTHER, INDICATING THEY ARE MAGNETICALLY COUPLED. REGION 3432 (S10W62) HAS DECAYED AND RELAXED, LEAVING REGION 3450 THE DOMINANT REGION CURRENTLY ON THE DISK. REGION 3444 (S15W13) REMAINED MILDLY ERUPTIVE WHILE REGIONS 3451 (N17E25) AND 3454 (N03E24) HAVE SHOWN FEATURES CHARACTERISTIC OF INCREASINGLY ERUPTIVE REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE FOR THE FORECAST PERIOD. ALTHOUGH REGION 3432 MAY HAVE DECAYED TOO MUCH TO RETAIN ITS M-CLASS FLARE POTENTIAL, THE 3450-3452 COUPLE CAN CONTINUE MODERATE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THROUGH 8 NOV, BECOMING QUIET FOR THE FIRST HALF OF 9 NOV. UNSETTLED CONDITIONS ARE EXPECTED UNTIL THE LATTER HALF OF 10 NOV WHEN ACTIVE CONDITIONS ARE EXPECTED TO BEGIN IN RESPONSE TO THE M6/1B FLARE ON 7/0357 UT. UNSETTLED CONDITIONS SHOULD THEN RETURN NEAR THE END OF 11 NOV AND REMAIN UNSETTLED FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 NOV-12 NOV

CLASS M 70/70/80

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 NOV 245

ESTIMATED 09 NOV 238

PREDICTED 10 NOV-12 NOV 233/226/220

90 DAY MEAN 08 NOV 228

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 NOV 013 AP 08 NOV 026

ESTIMATED AFR 08 NOV 026 AFR/AP 09 NOV 010/015

PREDICTED AFR/AP 10 NOV-12 NOV 020/025-018/015-010/015

SOLTERWARN

BT

HXUS 00U 091300

FREDM 07010 07011 08012

PRDX 01010 01011 01012

PREDP 00510 00511 01012

PCAF 00110

TFNCM 23310 22611 22012

AFRED 02010 01811 01012

AFAP 02510 01511 01512

XVK 32244 43323 44433

BT

HFUS 3 BOU 092200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 313B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 09 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200Z TO 09/2100Z: SOLAR ACTIVITY REMAINS MODERATE. REGIONS
3450 (S19E10) AND 3452 (S19E23) AGAIN COMBINED FORCES TO
PRODUCE AN M3/LARGE 1B AT 1312Z MAXIMUM. ACCORDING TO RADIO AND
OPTICAL REPORTS THE FLARE EVIDENTLY BEGAN IN REGION 3452 AND
THEN SPREAD NORTHWESTWARD INTO REGION 3450 CAUSING WHAT
APPEARED TO BE A DOUBLE MAXIMUM. A 10CM RADIO BURST OF 1485
SOLAR FLUX UNITS WAS RECORDED AT 1315Z ALONG WITH A TYPE IV
SWEEP. REGION 3450'S AREA AND MAGNETIC COMPLEXITY CONTINUE TO
INCREASE. REGION 3451 (N18E19) IS ALSO GROWING AND BECOMING
MORE ACTIVE AS WELL AS REGION 3454 (N03E19). ALL THREE OF THESE
REGIONS ARE LOCATED ON NEARLY THE SAME LONGITUDE. NEW REGIONS
3457 (S12E68) AND 3458 (N13E43) WERE NUMBERED TODAY, BOTH
SIMPLE GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN
MODERATE. ALTHOUGH THE SOLAR INDICES ARE DROPPING DUE TO THE
LOSS OF REGION 3432 (S09W72) OVER WEST LIMB, THE FLARE
PRODUCTION FROM REGIONS 3450, 3451 AND 3454 SHOULD MAINTAIN THE
MODERATE LEVELS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. ACTIVE CONDITIONS ARE EXPECTED EARLY IN THE
ZULU DAY ON THE 10TH AS A RESULT OF THE M6/1B FLARE FROM REGION
3432 ON THE 7TH OF NOV.

III. EVENT PROBABILITIES 10 NOV-12 NOV

CLASS M 70/70/30

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOV 237

PREDICTED 10 NOV-12 NOV 229/222/213

90 DAY MEAN 09 NOV 229

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 NOV 027/026

ESTIMATED AFR/AP 09 NOV 010/010

PREDICTED AFR/AP 10 NOV-12 NOV 025/025-015/015-010/015

SOLTERWARN

BT