

HFUS 1 BOU 041400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 308A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 04 NOVEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

03/1200Z TO 04/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE. AFTER A NEAR LULL IN ACTIVITY ON 03 NOVEMBER, REGION 3432(S12E05) HAS AGAIN ACTIVATED. IT PRODUCED A M1/1B AT 1113Z (X-RAY MAX). REGION 3432 CONTINUES TO EXHIBIT STRONG SUNSPOT STRUCTURAL CHANGES ON A DAILY BASIS. ON 03 NOVEMBER, THREE DELTA CONFIGURATIONS EXISTED IN THE LEADING PORTION OF THE SUNSPOT STRUCTURE. CULGOORA AND LEARMONTH REPORT A LARGE SUNSPOT ROTATING ON TO THE DISK NEAR SF20. STRONG SURGING AND BRIGHT LIMB FLARES HAVE BEEN REPORTED. THIS LIMB REGION IS IN THE LOCATION OF OLD ACTIVE REGION 3390.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH AN INCREASING CHANCE FOR HIGH LEVEL CLASS M OR CLASS X FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE LATTER PART OF 05 NOVEMBER. THEN THE FIELD IS EXPECTED TO BE ACTIVE THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 05 - 07 NOV

CLASS M 80/85/90

CLASS X 15/15/20

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 NOV 262

ESTIMATED 04 NOV 275

PREDICTED 05-07 NOV 290/300/305

90 DAY MEAN 03 NOV 224

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 NOV 04 AP 03 NOV 09

ESTIMATED AFR 03 NOV 07 AFR/AP 04 NOV 05/10

PREDICTED AFR/AP 05-07 NOV 12/14 20/20 14/20

SOLTERWARN

BT

HRUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 308B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 04 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 04/2100Z. AN M3/SB FLARE (MAX 1831Z) IN REGION
3432(S09W02) HIGHLIGHTED THE LAST 9 HOURS. THIS FLARE WAS
ACCOMPANIED BY A 180 FLUX UNIT BURST AT 10CM AND SHORT WAVE
FADES TO 15 MHZ. THE VAST PENUMBRA OF 3432 SHOWS SIGNS OF
FRAGMENTING BUT OVERALL THE REGION REMAINS IMPRESSIVE. REGIONS
3444(S13E48) AND 3450(S19E76) COULD POSE A THREAT FOR
SIGNIFICANT ACTIVITY IN THE NEAR FUTURE AS ROTATION IS
REVEALING THAT THESE REGIONS ARE WELL STRUCTURED AND ORGANIZED.

IP. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE WITH CHANCES FOR HIGH ACTIVITY INCREASING SLOWLY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED UNTIL
LATE ON 5 NOV OR EARLY ON 6 NOV WHEN ACTIVE CONDITIONS ARE
EXPECTED.

III. EVENT PROBABILITIES 05 NOV-07 NOV

CLASS M 80/85/90

CLASS X 15/15/20

PROTON 10/15/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 NOV 270

PREDICTED 05 NOV-07 NOV 285/290/293

90 DAY MEAN 04 NOV 225

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 NOV 005/009

ESTIMATED AFR/AP 04 NOV 005/010

PREDICTED AFR/AP 05 NOV-07 NOV 012/014-020/020-014/020

SOLTERWARN

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HXUS BOU 042200

PREDM 08005 08506 09007

REDX 01505 01506 02007

PREDP 01005 01506 02007

PCAFT 00105

TENCM 28505 29006 29307

AFRED 01205 02006 01407

AFAPF 01405 02006 02007

BT