

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

I. 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 STUCTURE. CULGOORA AND LEARMONT 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.

II. SOLAR ACTIVITY FORECAST:

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

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETLED CONDI-
TIONS 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.

IV. EVENT PROBABILITIES: 05 - 07 NOV

CLASS M 80/85/90

CLASS X 15/15/20

PROTON 10/15/20

PCAF GREEN

V. 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

VI. 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

HXUS 3 BOU 042200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDE NUMBER 308B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 04 NOV 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 04/2100Z. AN M3/SB FLARE (MAX 18312) IN REGION 3432(S09W02) HIGHLIGHTED THE LAST 9 HOURS. THIS FLARE WAS ACCCOMPANIED 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.

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

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

IV. EVENT PROBABILITIES 05 NOV-07 NOV

CLASS M	80/85/90
CLASS X	15/15/20
PROTON	10/15/20
PCAF	GREEN

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP 03 NOV 005/009
PREDICTED	05 NOV-07 NOV 285/290/293
90 DAY MEAN	04 NOV 225

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HXUS BOU-042200
PREDM 08005 08506 09007
PREDX 01505 01506 02007
PREDP 01005 01506 02007
PCAFI 00105
TENCM 28505 29006 29307
AFRED 01205 02006 01407
AFAPF 01405 02006 02007
PT