

HFXS 1 BOU 301300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 303A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 30 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200Z TO 30/1200Z: SOLAR ACTIVITY CONTINUES LOW. REGION 3416 (S04W88) IS CURRENTLY TRaversing THE WEST LIMB EXHIBITING ACTIVE SURGING. A C6/SN FLARE WAS OBSERVED FROM 3416 AT 29/2010UT WITH A BRIGHT SURGE. A MODERATELY LARGE REGION HAS ROTATED ONTO THE VISIBLE DISK AND HAS BEEN NUMBERED 3432 (S1IE69). 3432 APPARENTLY FORMED IN THE TRAILER OF OLD REGION 3388 AND DISPLAYS A COMPACT SPOT STRUCTURE WITH A POSSIBLE DELTA CONFIGURATION. VERY LITTLE FLARE ACTIVITY HAS BEEN OBSERVED FROM THIS REGION DURING THE LAST 24 HOURS. SEVERAL OTHER SMALL REGIONS HAVE BEEN NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BECOME MODERATE. AT THIS POINT, REGION 3432 APPEARS CAPABLE OF PRODUCING CLASS M FLARES. THIS REGION IS MOST LIKELY AT A POST-PUBESCENT STAGE AND, SINCE IT EMERGED WITHIN THE OLD FIELDS OF 3388, ALSO MAGNETICALLY COMPLEX. A LARGE FLARE FROM THIS REGION CANNOT BE RULED OUT. AN ISOLATED CLASS M FLARE FROM 3416 IS ALSO POSSIBLE UNTIL APPROXIMATELY 01 NOVEMBER.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. UNSETLED CONDITIONS SHOULD BE EXPERIENCED DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 31 OCT-02 NOV

CLASS M 50/40/40

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 OCT 191

ESTIMATED 30 OCT 195

PREDICTED 31 OCT-02 NOV 198/200/200

90 DAY MEAN 29 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 28 OCT 012 AP 29 OCT 010

ESTIMATED AFR 29 OCT 011 AFR/AP 30 OCT 009/015

PREDICTED AFR/AP 31 OCT-02 NOV 010/012-008/010-010/013

SOLTERWARN

BT

HFXS BOU 301300

PREDM 05031 04001 04002

PREDX 01031 01001 01002

PREDP 00131 00101 00102

PCAF 00131

TENCM 19831 20001 20002

AFRED 01031 00801 01002

AFAPF 01231 01001 01302

KKK 32232 32222 33222

BT

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HFUS 3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 303B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 OCT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 30/2100Z: SOLAR ACTIVITY CONTINUES LOW. THERE HAVE BEEN NO SIGNIFICANT EVENTS DURING THIS REPORT PERIOD. REGION 3432(S12E65) SHOWS MAGNETIC COMPLEXITY WITH AN APPARENT DELTA AND AN AREA IN WHITE LIGHT OF APPROXIMATELY 900 MILLIONTHS. THE REGION HAS APPEARED STABLE AND QUIET TO ALL OBSERVERS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO TREND TOWARD MODERATE LEVELS DURING THE FORECAST INTERVAL. REGION 3432 REMAINS THE MOST PROBABLE SOURCE OF MAJOR ACTIVITY WITH A CHANCE FOR INFREQUENT LARGE EVENTS. OTHER REGIONS SEEM UNLIKELY TO PRODUCE MORE THAN VERY LOW LEVEL ACTIVITY. RETURNING REGIONS OF SIGNIFICANCE ARE NOT EXPECTED WITHIN THE INTERVAL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD INTENSIFIED TO MINOR STORM LEVELS FROM UNSETTLED CONDITIONS, ONLY BRIEFLY, AFTER 1500UT ON 30 OCT. UNSETTLED CONDITIONS ARE EXPECTED TO PREVAIL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 31 OCT-02 NOV

CLASS M 50/40/40

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 OCT 204

PREDICTED 31 OCT-02 NOV 210/212/212

90 DAY MEAN 30 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 OCT 010/010

ESTIMATED AFR/AP 30 OCT 012/013

PREDICTED AFR/AP 31 OCT-02 NOV 010/012-008/010-010/013

SOLTERWARN

BT

NNNNZ