

BT

HFUS 1 BOU 311300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 304A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 31 OCT 1981

I.A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
30/1200Z TO 31/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3432
(S12E59) IS THE DOMINANT REGION ON THE DISK BUT HAS PRODUCED
ONLY MINOR ACTIVITY. OBSERVATIONS TODAY INDICATE THIS REGION IS
IN A RAPID GROWTH STAGE WITH CONTINUAL BRIGHTENINGS OCCURRING.
MAGNETIC DATA ARE NOT YET RELIABLE FOR THIS FORESHORTENED
REGION BUT GRADIENTS APPEAR HIGH AND SOME MIXED POLARITIES ARE
EVIDENT. REGION 3427 (N16E27) PRODUCED A C7/2N FLARE WITH
X-RAY MAXIMUM AT 31/0608UT.

I.B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME
MODERATE. 3432 SHOULD BEGIN TO PRODUCE CLASS M FLARES SOON.
THE POSSIBILITY OF A LARGE FLARE FROM THIS REGION REMAINS.
ANOTHER SIGNIFICANT ACTIVE REGION IS EXPECTED TO RETURN TO THE
VISIBLE DISK BEGINNING AT THE END OF THE FORECAST PERIOD.

I.I. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN GENERALLY UNSETTLED FOR THE PAST 24 HOURS WITH THE
EXCEPTION OF ONE DISTURBED PERIOD BETWEEN 30/1400-1700UT.
CURRENTLY THE FIELD IS QUIET. UNSETTLED GEOMAGNETIC CONDITIONS
ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 01 NOV-03 NOV

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 OCT 204

ESTIMATED 31 OCT 210

PREDICTED 01 NOV-03 NOV 214/218/225

90 DAY MEAN 30 OCT 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 OCT 010 AP 30 OCT 013

ESTIMATED AFR 30 OCT 011 AFR/AP 31 OCT 007/008

PREDICTED AFR/AP 01 NOV-03 NOV 008/010-007/013-012/021

SOLTERWARN

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