

HFUS 1 BOU 031400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 307A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 03 NOV 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
02/1200Z TO 03/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE DUE TO A LONG-LIVED M1 X-RAY EVENT. THE FLUX BEGAN TO RISE AT 0624Z, REACHED MAXIMUM AT 0820Z, AND IS STILL DECAYING TO PRE-EVENT BACKGROUND. OPTICAL OBSERVATIONS DID NOT PROVIDE A DISK SOURCE. THIS EVENT MAY PORTEND THE ARRIVAL OF OLD REGION 3390, ABOUT A HALF DAY FROM THE EAST LIMB. THOUGH REGION 3432 (S12E16) HAS INCREASED IN AREA, SPOT COUNT, AND MAGNETIC COMPLEXITY, ITS FLARE PRODUCTION HAS BEEN CONFINED TO CLASS C/SUBFLARE ACTIVITY. REGION 3427 (N15W11) CONTRIBUTED A C7/1B AT 1500Z AND REGION 3429 (S21W13) ADDED TWO SURFLARES. OTHER DISK REGIONS ARE QUIET.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH AN INCREASING CHANCE FOR LARGER ENERGETIC EVENTS.

I I. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. THE FIELD IS EXPECTED TO BE UNSETTLED UNTIL THE LATTER PART OF 05 NOVEMBER. THE FIELD IS THEN EXPECTED TO BE ACTIVE, RESPONDING TO CORONAL HOLE EFFECTS.

III. EVENT PROBABILITIES: 04 - 06 NOV

CLASS M 75/80/80

CLASS X 15/15/15

PROTON 05/10/15.

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 NOV 247

ESTIMATED 03 NOV 258

PREDICTED 04-06 NOV 270/280/290

90 DAY MEAN 02 NOV 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 NOV 07 AP 02 NOV 07

ESTIMATED AFR 02 NOV 06 AFR/AP 03 NOV 07/10

PREDICTED AFR/AP 04/06 NOV 10/15 12/14 20/20

SOLTERWARN

BT

HFWS 3rd BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 307B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z: SINCE 031200Z, SEVERAL SUBLARES AND A FLURRY OF SMALL RADIO BURSTS HAS BEEN THE EXTENT OF REPORTED ACTIVITY. REGION 3432(S11E11) CONTINUES TO CAPTIVATE ALL ATTENTION. THE SPOT GROUP HAS GROWN TREMENDOUSLY IN PENUMBRA OF THE TRAILING SECTION IN ADDITION TO ADDING A FEW MORE SPOTS. THE PLAGUE WITH 3432 APPEARS LARGE, BRIGHTER AND BETTER ORGANIZED THAN YESTERDAY. REGIONS 3443 AND 3447 ARE NOW THOUGHT TO BE ONE REGION AND NUMBERED 3448(N05360). REGION 3445(S15W56) WAS ERRONEOUSLY LISTED AS BEING LOCATED AT S08 ON THE 030200Z REGION REPORT. A SMALL NEW REGION DEVELOPED AT N19E04 AND IS NUMBER 3449. THE ACTIVITY ON THE EAST LIMB CONTINUES INTERMITTENTLY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TENDING TOWARD HIGH CONDITIONS BY THE END OF THE COMING 24 HOURS. ALL OF THE USUAL CHARACTERISTICS ASSOCIATED WITH FLARE PRODUCTION ARE PRESENT IN REGION 3432.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. UNSETLED CONDITIONS ARE EXPECTED ON 4 AND 5 NOV WITH CORONAL HOLE ACTIVITY EXPECTED TO BRING ACTIVE CONDITIONS BY 6 NOV.

III. EVENT PROBABILITIES 04 NOV-06 NOV

CLASS M 75/80/30

CLASS X 15/15/15

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 NOV 262

PREDICTED 04 NOV-06 NOV 270/280/290

90 DAY MEAN 03 NOV 224

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 NOV 004/007

ESTIMATED AFR/AP 03 NOV 007/010

PREDICTED AFR/AP 04 NOV-06 NOV 010/015-012/014-020/020

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