

HFUS 1 BOU 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 310A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS DUE TO AN UNASSOCIATED M2 FLARE AT 05/1242 UT. REGION 3432 (S10W24), ALTHOUGH DECAYING, STILL REMAINS THE MOST ACTIVE REGION ON THE DISK. ALTHOUGH LOSING AREA AND SPOT NUMBER, IT HAS RETAINED ITS DELTA MAGNETIC CONFIGURATION.

REGIONS 3444 (S16E26) AND 3450 (S21E54) ARE BOTH ERUPTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE FOR THE FORECAST PERIOD DUE PRIMARILY TO THE HISTORY AND CHARACTERISTICS OF REGION 3432. HOWEVER, SHOULD THIS REGION START TO DECAY EXPLOSIVELY, AN X-CLASS FLARE CAN RESULT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS AND IS EXPECTED TO REMAIN UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 07 NOV-09 NOV

CLASS M 80/70/60

CLASS X 15/15/10

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 NOV 259

ESTIMATED 06 NOV 254

PREDICTED 07 NOV-09 NOV 250/245/244

90 DAY MEAN 05 NOV 226

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 NOV 005 AP 05 NOV 014

ESTIMATED AFR 05 NOV 015 AFR/AP 06 NOV 012/015

PREDICTED AFR/AP 07 NOV-09 NOV 014/020-013/020-010/015

SOLTERWARN

BT

HFUS BOU 061300

PREDM 08007 07008 06009

PREDX 01507 01508 01009

PREDP 01507 01508 01009

PCAF 00207

TENCM 25007 24508 24409

AFRED 01407 01308 01009

AFAPF 02007 02008 01509

KKK 23322 23332 43322

BT

HFUS 3 ROU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SPE NUMBER 310B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 NOV 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

06/1200Z TO 06/2100Z:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST NINE HOURS WITH ONLY C-CLASS X-RAY EVENTS OBSERVED. THE LARGEST EVENT, A C3/SB AT 1318Z MAXIMUM, OCCURRED IN REGION 3432 (S10W31) WHICH HAS BEEN THE SOURCE OF MOST OF TODAY'S ACTIVITY. THIS REGION CONTINUES ITS RAPID DECAY (ITS AREA HAS DECREASED BY ONE THIRD SINCE YESTERDAY) BUT STILL RETAINS A SMALL MAGNETIC DELTA CONFIGURATION IN ITS LEADING PENUMBRA. REGION 3444 (S16E21) AND REGION 3427 (N17W57) WERE THE ONLY OTHER DISK REGIONS AMONG THE SEVENTEEN SPOTTED GROUPS TO FLARE WITH BOTH PRODUCING MINOR SUBFLARES. NO NEW GROUPS WERE SEEN TODAY.

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW, BUT THE POSSIBILITY OF AN ISOLATED M-CLASS OR SMALL X-CLASS X-RAY EVENT FROM REGION 3432 CANNOT BE IGNORED. THE SOLAR INDICES (SPOT NUMBER AND 10.7CM RADIO FLUX) ARE EXPECTED TO CONTINUE TO DROP DURING THE FORECAST PERIOD.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST NINE HOURS. NO SIGNIFICANT CHANGE IS EXPECTED DURING THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 07 NOV-09 NOV

CLASS M 80/70/60

CLASS X 15/15/10

PROTON 15/15/10

-CAF YELLOW

V. OTTAWA 10.7 CM FLUX

OBSERVED 06 NOV 249

PREDICTED 07 NOV-09 NOV 240/238/235

90 DAY MEAN 06 NOV 227

VI. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 NOV 011/014

ESTIMATED AFR/AP 06 NOV 011/015

PREDICTED AFR/AP 07 NOV-09 NOV 014/020-013/020-010/015

SOLTERWARN

BT