

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 033

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE THE PAST 24 HOURS. THE SLOW RISE, LONG LIVED M1 EVENT MENTIONED IN OUR 012200 UT FORECAST EVENTUALLY ENDED AFTER 012359 UT. SINCE THAT TIME, ACTIVITY HAS BEEN RESTRICTED TO C CLASS FLARES WITH THE LARGEST BEING A C9/1N FROM REGION 4403 (N15W39) AT 020445 UT (MAX). REGION 4403 IS NOW A SMALL, GROWING D TYPE GROUP THAT APPEARS TO BE DEVELOPING INTERIOR SPOTS WITH PENUMBRA. REGION 4398 (N18W86) IS PARTIALLY OVER THE WEST LIMB. SURGE ACTIVITY ALONG WITH SMALL FLARES ARE ACCOMPANYING ITS DEPARTURE. REGION 4399 (N13W59) RETAINS ITS DELTA CONFIGURATION AND, ALTHOUGH LESS THREATENING IN APPEARANCE AS IT NEARS THE LIMB, IS STILL OMINOUS ENOUGH FOR ENERGETIC ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH 4398, 4399 AND 4403 LIKELY CANDIDATES FOR M FLARE PRODUCTION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED UNTIL LATE IN THE DAY WHEN ACTIVE CONDITIONS WERE OBSERVED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS AS THE FIELD RECOVERS FROM THE DISTURBANCE OF RECENT DAYS.

III. EVENT PROBABILITIES 03 FEB-05 FEB

CLASS M 50/50/40

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 FEB 144

PREDICTED 03 FEB-05 FEB 138/135/130

90 DAY MEAN 02 FEB 102

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 FEB 015/016

ESTIMATED AFR/AP 02 FEB 007/020

PREDICTED AFR/AP 03 FEB-05 FEB 010/015-010/015-010/015

SOLTERWARN

BT