

HFUS3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 039

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100 TO 08/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NO SIGNIFICANT FLARE OR X-RAY EVENTS HAVE OCCURRED.

THREE NEW REGIONS WERE NUMBERED. THEY ARE REGION 4624 (NEAR N11W01), A B-TYPE GROUP, REGION 4625 (NEAR N02E65), AN A-TYPE GROUP, AND 4626 (NEAR S12E80), WHICH IS STILL BEING REPORTED AS AN H-TYPE GROUP. REGION 4626 IS THE RETURN OF OLD REGION 4617 WHICH PRODUCED SEVERAL M-CLASS AND AN X-CLASS PROTON FLARE LAST ROTATION. LIMB PROXIMITY OF THIS REGION PREVENTS DETAILED ANALYSIS. ARCH FILAMENT SYSTEMS WERE OBSERVED IN 4624 AND 4625. A FILAMENT NEAR S14E10 HAS REMAINED ACTIVE THROUGH THE DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. HOWEVER, NEW REGION 4626 SHOULD BE CAREFULLY WATCHED FOR RAPID DEVELOPMENT WHICH COULD LEAD TO A REPEAT OF THE SIGNIFICANT FLARE ACTIVITY IT OFFERED LAST ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO OCCASIONALLY ACTIVE FOR THE PAST 24 HOURS. ISOLATED PERIODS AT MINOR STORMS LEVELS WERE OBSERVED AT MIDDLE LATITUDES. THE GEOMAGNETIC FIELD IS RECOVERING SLOWLY FROM THE RECURRENT MINOR STORM CONDITIONS OF 6 FEBRUARY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED THROUGH TOMORROW, BUT SHOULD APPROACH QUIET LEVELS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 09 FEB-11 FEB

CLASS M 01/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 FEB 075

PREDICTED 09 FEB-11 FEB 075/078/080

90 DAY MEAN 08 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 FEB 020/021

ESTIMATED AFR/AP 08 FEB 018/023

PREDICTED AFR/AP 09 FEB-11 FEB 015/015-010/010-005/010

SOLTERWARN

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