

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.

SDF NUMBER 309

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 NOV 1983

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY HAS AGAIN BEEN LOW THIS PERIOD. REGION 4355 (S10E55) PRODUCED THE LARGEST EVENT OBSERVED THIS PERIOD A C3/1B AT 0408UT. ONLY MINOR RADIO WAS OBSERVED WITH THE EVENT. REGION 4354 (S18E28) IS REPORTED TO BE A "D" TYPE GROUP WITH A POSSIBLE DELTA IN THE SOUTH EAST PORTION OF THE REGION. THE NEUTRAL LINE APPEARS TO BE EAST WEST THROUGH THE REGION. NEW REGIONS NUMBERED TODAY ARE 4356 (N25E48) WHICH PRODUCED A MINOR FLARE AND 4357 (S10E11) WHICH IS A SIMPLE "B" TYPE. THE REST OF THE REGIONS HAVE BEEN REPORTED AS GENERALLY STABLE.

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THIS FORECAST PERIOD. REGION 4353, IF GROWTH CONTINUES, MAY BECOME A PRODUCER OF ISOLATED "M" CLASS EVENTS. RETURNING REGIONS WERE ALL IN A STATE OF DECAY AS THEY APPROACHED THE WEST LIMB AND THEY ARE NOT EXPECTED TO MAKE AN ENERGETIC RETURN DURING THIS FORECAST PERIOD.

II A. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED DURING THE PAST 24 HOURS. A TRANS-EQUATORIAL SOLAR SECTOR BOUNDARY SHOULD BEGIN TO INFLUENCE THE GEOMAGNETIC FIELD ON THE THIRD DAY OF THE FORECAST.

II B. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT GENERALLY UNSETLED LEVELS UNTIL MIDDAY ON 08 NOV WHEN ACTIVE TO MINOR STORM LEVELS ARE EXPECTED.

III. EVENT PROBABILITIES 06 NOV-08 NOV

CLASS M 10/10/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 NOV 107

PREDICTED 06 NOV-08 NOV 109/109/111

90 DAY MEAN 05 NOV 113

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 NOV 006/008

ESTIMATED AFR/AP 05 NOV 008/015

PREDICTED AFR/AP 06 NOV-08 NOV 008/015-012/015-017/015

SOLTERWARN

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