

HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 123

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4647(N04W105) HAS EXITED THE DISK. SURGING, ACTIVE PROMINENCES, AND POINT BRIGHTENINGS ASSOCIATED WITH REGION 4647 WERE REPORTED AT THE WEST LIMB. REGION 4649(N05E42), A CRO-TYPE SPOT GROUP WITH A BETA MAGNETIC CLASSIFICATION, HAS GROWN CONSIDERABLY SINCE YESTERDAY. ITS ACTIVE DARK FILAMENT, DARK SURGING, AND POINT BRIGHTENINGS BEAR WATCHING. A 12 DEGREE LONG FILAMENT ASSOCIATED WITH THE REGION DISAPPEARED OVERNIGHT AT S01E37. REGION 4650(N03E61), ANOTHER CRO-TYPE SPOT GROUP WITH A BETA MAGNETIC CLASSIFICATION, IS NOT AS ACTIVE AS REGION 4649. REGION 4651(N10E19) BEGAN THE PERIOD AS AN AXX TYPE SPOT GROUP, BUT LOST ITS SPOTS EARLY. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY. THERE REMAINS THE SLIGHT POSSIBILITY OF AN ENERGETIC EVENT ASSOCIATED WITH REGION 4647, BUT IT IS RAPIDLY DIMINISHING. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO UNSETTLED FOR THE PAST 24 HOURS. ISOLATED ACTIVE PERIODS OCCURRED 02/2100-2400UT AND 03/0900-1200UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED FOR THE NEXT 24 HOURS. ACTIVE CONDITIONS ARE EXPECTED FOR THE SUBSEQUENT 48 HOURS. GEOMAGNETIC STORMING IS EXPECTED TO BEGIN BY 06/0000UT. THIS ACTIVITY IS PREDICTED ON THE BASIS OF A RESPONSE TO THE EFFECTS OF THE PASSAGE OF A WEAK CORONAL HOLE PAST THE CENTRAL MERIDIAN 01 MAY.

III. EVENT PROBABILITIES 04 MAY-06 MAY

CLASS M 15/01/01

CLASS X 05/01/01

PROTON 05/01/01

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 071

PREDICTED 04 MAY-06 MAY 070/070/069

90 DAY MEAN 03 MAY 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAY 028/054

ESTIMATED AFR/AP 03 MAY 008/009

PREDICTED AFR/AP 04 MAY-06 MAY 012/015-020/020-028/040

SOLTERWARN

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