

HFUS3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 133

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100 TO 13/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 4652 (S13W01) PRODUCED AN M1/2B EVENT AT 13/0936Z. THE LATER C2/08 FLARE WAS ASSOCIATED WITH A 25 SFU RADIO BURST AT 2695 MHZ AND A TYPE III, IMPORTANCE THREE SWEEP. THE OTHER EVENTS FROM THIS REGION WERE B-LEVEL WITH SUB-FLARES. REGION 4652 DECREASED SLIGHTLY IN WHITE-LIGHT AREA AND ITS CLASSIFICATION WAS A DHI. IT CONTINUED ITS SLIGHT INCREASE IN SPOT NUMBER WITH THE POSITIVE FIELD SLOWLY SURROUNDING THE NEGATIVE FIELD AND THE MAGNETIC GRADIENT STILL INCREASING SLIGHTLY. IT REMAINED A BETA-TYPE. REGION 4653 (N07E12) REGENERATED AN ALPHA-TYPE GROUP. A NEWLY ASSIGNED

REGION WAS 4654 (S05E47) - A SIMPLE ALPHA-TYPE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4652 STILL PROVIDES A VERY SLIGHT CHANCE OF MODERATE ACTIVITY. RETURNING REGION 4647 (N05, CAR 233) ALSO PROVIDES A VERY SLIGHT CHANCE OF MODERATE LEVEL ACTIVITY AS IT ROTATED AROUND THE WEST LIMB AS A DAD (WHITE-LIGHT CLASSIFICATION) BETA-TYPE AFTER PRODUCING TWO M-LEVEL X-RAY EVENTS AND THREE IMPORTANCE ONE FLARES. IT IS EXPECTED TO RETURN AT 16/1600Z.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: GEOMAGNETIC ACTIVITY WAS ACTIVE-TO-UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED-TO-ACTIVE THE FIRST TWO DAYS (14-15 MAY). THE THIRD DAY IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS AS THE EFFECTS OF THE M1/2B EVENT OF 13/0936Z PROPAGATE TO THE MAGNETOSPHERE.

III. EVENT PROBABILITIES 14 MAY-16 MAY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 MAY 090

PREDICTED 14 MAY-16 MAY 090/089/089

90 DAY MEAN 13 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 MAY 011/016

ESTIMATED AFR/AP 13 MAY 012/015

PREDICTED AFR/AP 14 MAY-16 MAY 007/015-010/015-015/025

SOLTERWARN

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