

HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 139

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE MOST ENERGETIC EVENT OF THE DAY WAS A C3/ON FLARE IN REGION 4656(N07E44). THE MAXIMUM WAS REPORTED AT 2053Z--JUST PRIOR TO FILE TIME--AND ALL DATA ON THE EVENT IS NOT YET KNOWN. AT 1737Z A C1 X RAY ENHANCEMENT WAS DETECTED BUT BAD WEATHER PREVENTED OPTICAL VERIFICATION. INDICATIONS ARE THAT THIS EVENT ALSO OCCURRED IN REGION 4656. MUNDEST RADIO BURSTS AT LOW FREQUENCIES HAVE BEEN NOTED THROUGHOUT THE PERIOD. THE REMAINDER OF THE DISK AND LIMBS HAS BEEN UNIMPRESSIVE.

IB. SOLAR ACTIVITY FORECAST: INFREQUENT C-CLASS SUBFLARES ARE EXPECTED FROM REGION 4656. THE WEST LIMB PASSAGE OF REGION 4652 SHOULD BRING INTERMITTENT SURGING NEAR S12.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: UNSETTLED CONDITIONS HAVE PREVAILED THROUGHOUT THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE LEVEL OF ACTIVITY IS EXPECTED TO INCREASE THE NEXT 3 DAYS CULMINATING IN MILDLY ACTIVE CONDITIONS ON MAY 22.

III. EVENT PROBABILITIES 20 MAY-22 MAY

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MAY 088

PREDICTED 20 MAY-22 MAY 085/085/084

90 DAY MEAN 19 MAY 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 MAY 010/014

ESTIMATED AFR/AP 19 MAY 011/015

PREDICTED AFR/AP 20 MAY-22 MAY 012/015-015/020-018/020

SOLTERWARN

BT