

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 142

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4656 (N08E02) REMAINS AS THE ONLY REGION WITH ANY DEGREE OF COMPLEXITY. FREQUENT POINT BRIGHTENINGS, ACTIVE FILAMENTS AND AN OCCASIONAL SUBFLARE CHARACTERIZE ITS DYNAMIC TENDENCIES. LOW FREQUENCY RADIO BURSTS OFTEN ACCOMPANY THE SMALL FLARES. THE SPOT GROUP WITH 4656 IS NOW A TYPE C, AND THE DECLINE IN AREA DURING THE PAST 24 HOURS HAS BEEN SIGNIFICANT. REGION 4655 (S08W22) IS A SIMPLE AND STABLE H TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT 24 HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS. THE CORONAL HOLE JUST PAST CENTRAL MERIDIAN WILL LIKELY IMPACT THE FIELD DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 23 MAY-25 MAY

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAY 082

PREDICTED 23 MAY-25 MAY 081/080/080

90 DAY MEAN 22 MAY 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 MAY 007/012

ESTIMATED AFR/AP 22 MAY 008/012

PREDICTED AFR/AP 23 MAY-25 MAY 010/015-015/020-020/025

SOLTERWARN

BT