

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 148

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS LOW TO MODERATE DURING THE PAST 24 HOURS. AN M1 EVENT WITH MAX TIME OF 280058Z IS BELIEVED TO HAVE ORIGINATED BEHIND THE EAST LIMB

BUT NO DEFINITE SOURCE IS KNOWN. HOWEVER, LOOPS WERE OBSERVED AT SE08 FROM 280300 UNTIL 280450Z. REGION 4187 (S17W27) REMAINS THE REGION WITH THE MOST IMPRESSIVE CHARACTERISTICS. THE BETA GAMMA SPOT GROUP CONTAINS CLOSE TO 30 SPOTS AND HAS FAIRLY TIGHT GRADIENTS IN ITS CENTRAL PORTIONS. REGION 4200 (S12W70) WAS NUMBERED TODAY; TWO REGIONS ROTATED OVER THE WEST LIMB AND FOUR REGIONS (4192, 4195, 4186 AND 4198) LOST THEIR SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY LOW. SHOULD THE EAST LIMB IN FACT BE THE SOURCE OF TODAYS M EVENT, A SIGNIFICANT REGION COULD BE VISIBLE BY TOMORROW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE RETURN OF A CORONAL HOLE IS EXPECTED TO INFLUENCE THE FIELD BY 31 MAY AND CHANGE THE FIELD FROM UNSETLED TO ACTIVE.

III. EVENT PROBABILITIES 29 MAY-31 MAY

CLASS M 10/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAY 130

PREDICTED 29 MAY-31 MAY 130/130/130

90 DAY MEAN 28 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 MAY 012/018

ESTIMATED AFR/AP 28 MAY 009/015

PREDICTED AFR/AP 29 MAY-31 MAY 012/015-015/020-025/025

SOLTERWARN

BT