

HFUS~3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 150

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100 TO 30/2100Z: SOLAR ACTIVITY HAS BEEN LOW. HOWEVER, REGION 4187 (S18W58) HAS CONTINUED TO SHOW SUBSTANTIAL SPOT GROWTH AND REGION 4201 (S12E64) HAS ROTATED FURTHER ONTO THE DISK. REGION 4187 HAS SOLIDIFIED ITS CENTRAL PENUMERA WHILE ENCOMPASSING A DELTA CONFIGURATION IN THAT AREA. REGION 4201 HAS REVEALED A LARGE D TYPE SPOT GROUP WITH IMPRESSIVE PENUMBRA ON BOTH THE LEADER AND TRAILER. A MORE FAVORABLE DISK POSITION MAY REVEAL THAT THIS REGION ALSO CONTAINS A MAGNETIC DELTA. THE OTHER DISK REGIONS HAVE NOT SHOWN MUCH CHANGE. THE RECENT CYCLE OF WAXING AND WANING OF SMALL REGIONS CONTINUES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS LIKELY TO INCREASE OVER THE NEXT DAY OR TWO AS REGIONS 4187 AND 4201 COMBINE EFFORT IN FLARE PRODUCTION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET. SLIGHTLY UNSETTLED CONDITIONS WERE BEING NOTED BY 1300UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO ACTIVE CONDITIONS SHOULD DOMINATE THE FIELD OVER THE NEXT 48 HOURS OR SO AS THE CORONAL HOLE EFFECTS PREVAIL.

III. EVENT PROBABILITIES 31 MAY-02 JUN

CLASS M 20/30/40

CLASS X 01/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 MAY 130

PREDICTED 31 MAY-02 JUN 132/133/136

90 DAY MEAN 30 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 MAY 005/007

ESTIMATED AFR/AP 30 MAY 007/010

PREDICTED AFR/AP 31 MAY-02 JUN 025/025-025/020-015/015

SOLTERWARN

BT