

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 149

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100 TO 29/2100Z: SOLAR ACTIVITY REMAINS LOW. THE GENERAL TREND OF THE DISK REGIONS APPEARS TO BE ONE OF DECAY WITH THE EXCEPTION OF 4187 (S18W43). REGION 4187 NOW HAS ABOUT 40 SPOTS AND MOST OF THE DEVELOPING SPOTS ARE IN THE LEADER SECTION BUT POSSESS TRAILER POLARITY. THIS SHOULD RESULT IN TIGHTENING THE GRADIENTS. REGION 4201 (S09E72) IS ONLY A SIMPLE H TYPE GROUP SO FAR BUT MAY HAVE TRAILERS YET TO COME. ONE OTHER GROUP WAS NUMBERED TODAY, 4202 (S10E16) WHICH IS SMALL AND BASICALLY SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN GENERALLY LOW. CONTINUED ALTERATIONS IN THE CONFIGURATION OF 4187 AND THE POSSIBLE TRAILING PORTIONS OF 4201 COULD PRODUCE ISOLATED M FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD HAS BEEN BASICALLY QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD MAY BEGIN TO REFLECT THE INFLUENCE OF THE CORONAL HOLE BY THE LATTER HALF OF TOMORROW. DISTURBED CONDITIONS WOULD THEN PERSIST THROUGH 1 JUNE.

III. EVENT PROBABILITIES 30 MAY-01 JUN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAY 135

PREDICTED 30 MAY-01 JUN 140/144/143

90 DAY MEAN 29 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MAY 007/009

ESTIMATED AFR/AP 29 MAY 007/015

PREDICTED AFR/AP 30 MAY-01 JUN 015/020-025/025-025/020

SOLTERWARN

BT