

HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 128

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 07 MAY 1980

I. SOLAR ACTIVITY HAS BEEN LOW DURING THE LAST 24 HOURS. REGION 2418 (S20N24) PRODUCED ONE M4/1B FLARE WITH ASSOCIATED SHORT WAVE FADE, AND RADIO BURSTS AT ALL FREQUENCIES. MAXIMUM TIME OF THIS EVENT OCCURRED AT 1320 UT. AN ALERT WAS ISSUED FOR THE OPTICAL EVENT, AND FOR THE 10CM RADIO FLUX WHICH REACHED 280 FLUX UNITS OVER BACKGROUND. FIVE NEW REGIONS WERE NUMBERED 2438 (S16E71), 2439 (S13W10), 2440 (N19E04), 2441 (N07E37), AND 2442 (S22E63). 10CM RADIO FLUX FROM THE EAST LIMB IS HIGHER THAN WOULD BE EXPECTED FROM REGION 2438. THERE ARE NO RETURNING REGIONS TO REPORT.

II. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR 24 HOURS. REGION 2418 IS A GOOD PROSPECT FOR ACTIVITY. IT APPEARS TO CONTAIN MORE COMPLICATED STRUCTURE, AND A MAGNETIC DELTA IS AGAIN OBSERVED. REGION 2438 (S16E71) DOES NOT SHOW CLEAR PROSPECTS, AND REGION 2441 (S18W86) WILL SOON BE GONE. RADIO FLUX FROM THE EAST LIMB MAY INDICATE A NEW ACTIVE REGION ARRIVING.

III. GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED DURING THE LAST 24 HOURS. IT IS EXPECTED TO REMAIN UNSETTLED FOR ANOTHER 24 HOURS.

III. EVENT PROBABILITIES 08 MAY - 10 MAY

CLASS M 50/5 0/5 0

CLASS X 05/05 /05

PREDICTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 MAY 201

PREDICTED 08-10 MAY 200/202/200

90-DAY MEAN 07 MAY 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 06 MAY 06

ESTIMATED AFRYAP 07 MAY 08/10

PREDICTED AFR/AP 08-10 MAY 06/10 - 05/07 - 05/08

SOLAR TERM

BT