

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 JULY 1980

IA. SOLAR ACTIVITY HAS CONTINUED AT LOW LEVELS DURING THE PAST 24 HOURS. THE LARGEST FLARE WAS A C3/1B FROM REGION 2567 (S10W17). REGIONS 2562 (S12W36), 2559 (N20W58), 2570 (S24E01), 2571 (S21E16) AND 2581 (S08E64) ALL PRODUCED SUB FAINT FLARES TODAY. THE POLAR CAP ABSORPTION EVENT WENT BELOW EVENT LEVELS AT 190800UT. THE PROTON EVENT WENT BELOW EVENT CRITERIA AT 192120UT. REGIONS 2570 AND 2571 HAVE DELTAS AND HAVE SHOWN CHANGE IN BOTH SIZE AND SPOT NUMBERS DURING THE PAST 24 HOURS. REGION 2562 NO LONGER HAS A DELTA AND IS LESS COMPLEX TODAY. NEW REGIONS TODAY 2580 (N07W12) AND 2582 (N11E74) B-TYPE GROUPS. NEW REGION 2581 (S08E64) IS A SIMPLE A-TYPE, HOWEVER A BRIGHT SURGE OUT TO .12 RADII WAS OBSERVED WITH THIS REGION, THEREFORE ALL OF IT MAY NOT BE AROUND THE LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE TO MODERATE LEVELS AS REGIONS 2562, 2570 AND 2571 UNDERGO CHANGE.

II. THE GEOMAGNETIC FIELD WAS ACTIVE WITH SHORT PERIODS OF MINOR STORM DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETLED THE REST OF THE FORECAST PERIOD. A CHANCE FOR ACTIVE CONDITIONS ON 21 JULY IS POSSIBLE AS THE EFFECTS OF A SOLAR SECTOR BOUNDARY ARE FELT.

III. EVENT PROBABILITIES 20 JULY - 22 JULY

CLASS M 05 / 05 / 05

CLASS X 05 / 05 / 05

PROTON 05 / 05 / 05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 JULY 253

PREDICTED 20-22 JULY 255/257/250

90-DAY MEAN 19 JULY 282

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 18 JULY 22

ESTIMATED AFR/AP 19 JULY 14/25

PREDICTED AFR/AP 20-22 JULY 09/15 - 12/12 - 10/10

SOLTERWARN

RT