

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 2020

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 20 JULY 1980

IA. SOLAR ACTIVITY HAS INCREASED TO A MODERATE LEVEL. REGION 2562 (S13W48) PRODUCED A M1/1B FLARE AT 1925 UT WITH AN ASSOCIATED SMALL RADIO BURST. THIS REGION HAS HAD ACTIVE DARK FILAMENTS AND POINT BRIGHTENINGS THROUGHOUT THE PAST 24 HOURS. REGION 2570 (S24W12) HAS PRODUCED 8 SMALL FLARES, THE LARGEST WAS A C5/1B AT 1221 UT. REGIONS 2571 (S20E00) AND 2569 (N18W15) BOTH PRODUCED THREE SUBFLARES. THERE ARE CURRENTLY FIFTEEN SPOT GROUPS VISIBLE ON THE DISK. A NEW REGION 2584 (S26W20), DEVELOPED IN THE LAST 18 HOURS TO A D-TYPE SPOT GROUP WITH COMPACT PLAGE AND AN ARCH FILAMENT SYSTEM. IT PRODUCED A SUBFLARE AT 0258 UT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. REGIONS 2562, 2570, AND 2571 ARE CAPABLE OF CLASS M ACTIVITY AND MINOR FLARES ARE POSSIBLE FROM SEVERAL OTHER REGIONS ON THE DISK.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO REMAIN UNSETTLED WITH A CHANCE OF ACTIVE CONDITIONS ON 21 JULY FROM A SOLAR SECTOR BOUNDARY WHICH CROSSED CENTRAL MERIDIAN ON 18 JULY.

III. EVENT PROBABILITIES 21 JULY - 23 JULY

CLASS M 65/65/65

CLASS X 05/05/05

PROMPTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JULY 250

PREDICTED 21-23 JULY 245/240/235

90-DAY MEAN 20 JULY 203

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 19 JULY 11

ESTIMATED AFR/AP 20 JULY 07/10

PREDICTED AFR/AP 21-23 JULY 12/12 - 10/10 - 08/10

SOLTERWARN

BT