

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 229

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 AUGUST 1980

IA. SOLAR ACTIVITY REMAINED LOW TODAY. SEVERAL SUBFLARES
OCCURRED, PRIMARILY IN REGIONS 2618 (S26W03), 2620 (N11E01),
AND 2629 (N17E33). THE LARGEST EVENT OF THE DAY WAS A C5.6 X-RAY
FLARE AT 1926 UT WITH NO OPTICAL REPORT. REGION 2629 GREW VERY
RAPIDLY AND HAS EMERGED AS OUR MOST ERUPTIVE REGION. REGION 2621
(S25E06) ALSO GREW VERY RAPIDLY AND BECAME INCREASINGLY COMPLEX
MAGNETICALLY AND IN WHITE LIGHT. ONE NEW REGION WAS OBSERVED
TODAY, 2631 (N06E01).

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR ONE MORE DAY,
BECOMING MODERATE ON 18 AND 19 AUGUST DUE PRIMARILY TO GROWTH IN
REGION 2629.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED FOR THE FIRST HALF OF THE
UT DAY, REACHING MINOR STORM LEVEL FOLLOWING A SUDDEN COMMENCEMENT
OF 50 GAMMAS AT 1240 UT. THE MOST PROBABLE CAUSE WAS AN ERUPTIVE
FILAMENT ON 12 AUGUST. THE FIELD IS EXPECTED TO STAY ACTIVE
UNTIL LATE 16 AUGUST, BECOMING UNSETTLED FOR THE REMAINDER OF THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 17 AUGUST - 19 AUGUST

CLASS M 40/50/50

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 AUGUST 191

PREDICTED 17-19 AUGUST 190/188/185

90-DAY MEAN 16 AUGUST 194

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 AUGUST 05

ESTIMATED AFR/AP 16 AUGUST 25/28

PREDICTED AFR/AP 17-19 AUGUST 00/15 - 08/12 - 07/08

SOLTERWARN

BT