

HFUS I BOU-292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 149

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 MAY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 1774 (N14E64) HAS HAD THE ONLY OPTICAL FLARE REPORTED, A SN AT 1737Z (MAXIMUM). SEVERAL UNCORRELATED C-CLASS X-RAY EVENTS WERE OBSERVED, THE LARGEST A C4 AT 0733Z (MAXIMUM) HAD MINOR RADIO BURSTS ASSOCIATED WITH IT. A C1 EVENT AT 0406Z (MAXIMUM) HAD THE MOST RADIO ACTIVITY OF THE DAY, WITH LOW LEVEL BURSTS RECORDED THROUGH THE ENTIRE FREQUENCY SPECTRUM. REGION 1774 IS NOW A CSI TYPE SPOT GROUP WITH ARCH FILAMENTS AND POSSIBLE BETA GAMMA CONFIGURATION. REGION 1759 (N17W47) HAS BEEN QUIET TODAY WITH SLOW DECAY REPORTED. NO NEW REGIONS HAVE BEEN SEEN TODAY.

IB. SOLAR ACTIVITY WILL REMAIN LOW DURING THE FORECAST PERIOD. THE REGIONS CURRENTLY VISIBLE ON THE DISK ARE NOT EXPECTED TO GIVE ANY ENERGETIC EVENTS. THE TREND THROUGH THE FORECAST PERIOD IS FOR SLOWLY INCREASING ACTIVITY WITH THE EXPECTED RETURN OF SIX REGIONS WHICH WERE SOMEWHAT ACTIVE LAST ROTATION.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED THROUGH MOST OF THE PERIOD. AT 1850Z A SUDDEN IMPULSE TO THE FIELD RESULTED IN MINOR STORM LEVELS FOR THE REMAINDER OF THE PERIOD. MINOR STORM CONDITIONS ARE EXPECTED THROUGH THE NEXT 18-24 HOURS, FOLLOWED BY UNSETTLED CONDITIONS DURING THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 30 MAY - 01 JUNE

CLASS M 10/20/30

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAY 146

PREDICTED 30 MAY - 01 JUNE 148/151/152

90-DAY MEAN 29 MAY 177

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 MAY 09

ESTIMATED AFR/AP 29 MAY 15/18

PREDICTED AFR/AP 30 MAY - 01 JUNE 25/33 - 12/12 - 08/08

SOLTERWARN

BT