

HFUS 11 001 2822 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 148

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 MAY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. NEW REGION 1774 (N13E 77) ROTATED OVER THE EAST LIMB EARLY IN THE ZULU DAY, AND HAS PRODUCED THE ONLY SIGNIFICANT ACTIVITY. A C1/SN FLARE WAS OBSERVED AT 1527Z MAXIMUM AND A SN FLARE WITH AN ASSOCIATED TYPE III RADIO SWEEP AT 1819Z. AS MORE OF THE REGION BECOMES VISIBLE, IT APPEARS TO BE A C-TYPE WITH PLAGE NORTHEAST AND SOUTHEAST OF THE SPOTS. REGION 1761 (S22W 66) PRODUCED A SF FLARE AT 1554Z MAXIMUM. REGION 1759 (N18W 33) APPEARS TO BE DEVELOPING SLOWLY, IS NOW A BETA GAMMA WITH ARCH FILAMENTS, BUT HAS REMAINED STABLE THROUGHOUT THE DAY. NEW REGION 1773 (S08E 08) IS EMERGING RAPIDLY, IS NOW A B-TYPE WITH 5 SPOTS AND ARCH FILAMENTS REPORTED. NEW REGION 1775 (S23W 17) IS A SIMPLE A-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW LEVEL THROUGH THE NEXT THREE DAYS. THE TREND, HOWEVER, WILL BE TOWARD SLIGHTLY MORE ACTIVITY EACH CONSECUTIVE DAY BASED ON REGIONS 1759, 1774 AND THE EXPECTED RETURN OF THREE OLD REGIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THIS ZULU DAY FOLLOWING ACTIVE CONDITIONS YESTERDAY. THE FIELD IS EXPECTED TO REMAIN AT UNSETTLED CONDITIONS THROUGH THE NEXT 48 HOURS, NEARING QUIET CONDITIONS ON THE THIRD DAY.

III. EVENT PROBABILITIES 29 MAY - 31 MAY

CLASS M 10/10/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 13.7 CM FLUX

OBSERVED 28 MAY 145

PREDICTED 29-31 MAY 146/147/148

90-DAY MEAN 28 MAY 177

V. GEOMAGNETIC A INDICES

OBSERVED, FREDERICKSBURG 27 MAY 14

ESTIMATED AFR/AP 28 MAY 10/14

PREDICTED AFR/AP 29-31 MAY 10/10 - 08/10 - 07/08

SOLTERWARN

BT