

HFUS 1 BOU 3 02200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 089

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS. DESPITE ITS SIZE AND VERY COMPLEX MAGNETIC STRUCTURE, REGION 1661 (S24E32) HAS PRODUCED ONLY CLASS C-SUBFLARE ACTIVITY. APPARENTLY REGION 1661 IS DISSIPATING ENERGY NEARLY CONTINUOUSLY WITH STRONG FLARE BRIGHTENINGS AND SUBFLARE ACTIVITY. REGION 1649 (N07W47) HAS DEVELOPED ANOMALOUS POLARITY SPOTS AHEAD OF THE LARGE LEADER AND THIS HAS BEEN THE SITE OF SUBFLARE ACTIVITY. REGIONS 1669 (S23W49), 1670 (S27E03), AND 1671 (N26E65) HAVE BEEN ADDED TODAY. REGION 1671 HAS HAD FLARE FLUCTUATIONS AND SUBFLARE ACTIVITY AND HAS THE CHARACTERISTICS OF A REGION HAVING MODERATE GROWTH.

IB. DESPITE ITS CURRENT LULL, REGION 1661 IS EXPECTED TO PRODUCE CLASS M OR GREATER FLARES. THE REGION HAS BEEN UNDERGOING RAPID CHANGES IN ITS SUNSPOT STRUCTURE AND CONTAINS TWO DELTA CONFIGURATIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED SINCE THE DECAY OF THE MAG STROM BY STORM BY 30/0900Z. THE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON 31 MARCH IN RESPONSE TO A SECTOR BOUNDARY PASSAGE AND GENERALLY UNSETTLED FOR THE NEXT TWO DAYS.

III. EVENT PROBABILITIES 31 MAR - 02 APR

CLASS M 80/85/85

CLASS X 15/15/15

PROTON 15/15/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 MAR 190

PREDICTED 31 MAR-02 APR 198/200/205

90-DAY MEAN 30 MAR 199

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 MAR 40

ESTIMATED AFR/AP 30 MAR 14/20

PREDICTED AFR/AP 31 MAR-02 APR 16/17 - 10/12 - 12/12

SOLTERWARN

BT