

HFUS. 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 023

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 JANUARY 1979

IA. DESPITE NUMEROUS SUBFLARES FROM EIGHT OF THE SPOTTED REGIONS, SOLAR ACTIVITY HAS BEEN LOW TODAY. THE LARGEST EVENTS WERE A C5 AT 0631Z WITH SIMULTANEOUS SUBFLARES IN REGIONS 1519 (N 19W 30) AND 1525 (N 12E 06); AND, A C6/SB AT 2034Z IN REGION 1528 (N 21E 27). REGION 1519 IS DECAYING IN STRUCTURE BUT RETAINS A BETA GAMMA CONFIGURATION (YESTERDAY'S DELTA HAS DECAYED). REGIONS 1525 AND 1527 (N 10E 28) SHARE A COMMON, COMPLEX NEUTRAL LINE. REGIONS 1528, 1532 (S 15E 36) AND 1533 (S 26E 48) ALL CURRENTLY CONTAIN ISOLATED POLARITIES WITHIN BASIC BIPOLAR STRUCTURES.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH ALL OF THE REGIONS LISTED IN IA CAPABLE OF PRODUCING CLASS M/X-RAY FLARES.

II. THE FIELD WAS UNSETTLED, BECOMING ACTIVE AFTER 0000Z. THE FIELD IS EXPECTED TO BE ACTIVE FOR THE NEXT 12-18 HOURS WITH A GRADUAL TRANSITION TO UNSETTLED CONDITIONS THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24-26 JANUARY

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 JANUARY 232

PREDICTED 24-26 JANUARY 232/232/232

90-DAY MEAN 23 JANUARY 175

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 22 JANUARY 08

ESTIMATED AFR/AP 23 JANUARY 18/25

PREDICTED AFR/AP 24-26 JANUARY 14/26 / 12/17 / 10/13

SOLTERWAR N

BT