

HFUS 1 B O U 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 028

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 JAN 1980

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL. CLASS M EVENTS
OCCURRED AT: 27/2337Z AND 28/0740Z FROM REGION 2259 (N05E47),
26/0305Z FROM REGION 2247 (S17W90) AND 28/1710Z (SOURCE UNKNOWN).
REGION 2259 CONTINUES TO EXHIBIT CHARACTERISTICS OF A MAJOR FLARE
PRODUCER. REGION 2247 (S17W90) IS CROSSING THE LIMB AND IS NOW
PRODUCING ONLY SMALL ACTIVITY. GROWTH HAS BEEN REPORTED IN REGION
2262 (N16E64). A NEW REGION 2265 IS ROTATING ON TO THE DISK NEAR
NE22. WEATHER HAS RESTRICTED OBSERVATIONS AT MOST OF OUR OBSERV-
ATORIES.

IB. SOLAR ACTIVITY SHOULD REMAIN AT A MODERATE LEVEL WITH DAILY
OCCURANCES OF CLASS M AND AN OCCASSIONAL CLASS X FLARES. 2247 AND
2259 ARE THE MOST LIKELY SOURCES FOR THESE EVENTS. E-W DRIFT
SCANS INDICATE MORE REGIONS SHOULD BE ROTATING ON TO THE DISK.

II. THE GEOMAGNETIC FIELD WAS MILDLY ACTIVE UNTIL 28/0730Z,
THEN QUIET UNTIL 28/1200Z, AND HAS BEEN AT ACTIVE LEVELS SINCE.
THE FIELD IS EXPECTED TO CONTINUE TO BE UNSETTLED TO ACTIVE THRU
THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 - 31 JAN

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/5/5

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 JAN 1980

PREDICTED 29-31 JAN 204/208/212

90-DAY MEAN 28 JAN 215

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 27 JAN 19

ESTIMATED AFR/AP 28 JAN 20/21

PREDICTED AFR/AP 29-31 JAN 15/18 13/15 10/10

SOLTERWARN

BT