

HFUS 1 BOULDER 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 017

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST EVENT WAS C8/2N ON 16 JANUARY 2246 UT (MAX) FROM REGION 1502 (N 16W 67). NUMEROUS OTHER C-CLASS EVENTS WERE RECORDED, SEVERAL BEING ASSOCIATED WITH SUBFLARES FROM REGIONS 1502, (1507 (S23W32) AND 1519 (N 19E47)). A NEW REGION 1522 (S10E73) WAS SEEN TO BE AN H-Spot AS (IFT) ROTATED ONTO THE DISK. REGION 1506 (S24W59) DECLINED IN MAGNETIC COMPLEXITY AND SPOT NUMBER AND REGION 1520 (S14E49) GREW IN AREA AND SPOT NUMBER. ALL OTHER REGIONS REMAINED NEARLY STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE (SEVERAL C-CLASS EVENTS BUT FEWER THAN 5 M-CLASS XRAY EVENTS) FOR THE NEXT 3 DAYS. THE MOST MAGNETICALLY COMPLEX REGION, 1502, WILL ROTATE OFF THE VISIBLE DISK TOMORROW, BUT THE PROBABILITY OF AN ENERGETIC EVENT FROM THIS REGION OR 1507 REMAINS FINITE.

II. MAGNETIC ACTIVITY HAS BEEN QUIET FOR THE PAST 24 HOURS. THE MAGNETIC FIELD IS EXPECTED TO REMAIN QUIET TO UNSETLED THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 18 JANUARY - 20 JANUARY

CLASS M 60/50/50

CLASS X 20/15/10

PROTON 10/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED (17 JANUARY) 179

PREDICTED (18-20 JANUARY) 186/183/180

90-DAY MEAN (17 JANUARY) 171

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 JANUARY 07

ESTIMATED AFR/AP 17 JANUARY 04/06

PREDICTED AFR/AP 18-20 JANUARY 07/10 - 08/12 - 07/10

SOLTERWARN

BT