

HFUS 1 BOU (172200

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 (N16W67). NUMEROUS OTHER C-CLASS EVENTS WERE  
RECORDED, SEVERAL BEING ASSOCIATED WITH SUBFLARES FROM  
REGIONS 1502, 1507 (S23W32) AND 1519 (N19E47). A NEW REGION  
1522 (S10E73) WAS SEEN TO BE AN H SPOT AS (1F) 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 UNSETTLED  
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