

HFUS (1 BOU (182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 018

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z (18 JAN 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. THE LARGEST FLARE WAS
AN M4.1 AT 0900 U.T. (MAX) BUT THERE WAS NO OPTICAL REPORT FOR IT
OR FOR THE SEVERAL OTHER C-FLARES DURING THE FIRST HALF OF THE
DAY. REGION (1520 (S16E35) WAS THE MOST ACTIVE REGION TODAY WITH
A C-7/SN AT 1343 U.T., A C-6/SN AT 1517 U.T., AND SEVERAL OTHER
SUBFLARES. IT HAS GROWN TO A D-TYPE GROUP WITH 15 SPOTS.
REGION (1502 (N16W81) HAD A C-8/SN FLARE AT 1416 U.T. AND
SEVERAL OTHER SUBFLARES. IT APPEARS TO HAVE DECAYED SLIGHTLY
BUT IS STILL AN E-TYPE GROUP. NEW REGION (1523 (S23W06) HAD TWO
SUBFLARES AND IS A D-TYPE GROUP. NEW REGION (1524 (S20E48) IS
A C-TYPE GROUP AND NEW REGION 1525 (N11E71) IS A B-TYPE GROUP.
REGION (1514 (N10W09) APPEARS TO BE A REVERSED POLARITY GROUP. THE
REST OF THE DISK/LIMB IS QUIET.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE. REGIONS 1520 AND
1523 SHOULD BE WATCHED FOR GROWTH AND ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. CONDITIONS
SHOULD BE UNSETTLED FOR THE NEXT 48 HOURS WITH POSSIBLE ACTIVE
CONDITIONS ON THE THIRD DAY.

III. EVENT PROBABILITIES 19-21 JAN

CLASS M 70/80/80

CLASS X 15/10/10

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JAN 182

PREDICTED (19-21 JAN 180/178/178

90-DAY MEAN 18 JAN 171

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 JAN 04

ESTIMATED AFR/AP (18 JAN 11/12

PREDICTED AFR/AP 19-21 JAN 00/12 - 11/10 - 15/20

SOLTERWARN

BT