

NNNN

KBOU

HFUS BOU 172220

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 017 ISSUED 2200Z 17 JANUARY 1972

MINOR SOLAR ACTIVITY EXPECTED.

A. ALL OBSERVED FLARES DURING THE PAST 24 HOURS HAVE ORIGINATED IN REGION 015. THREE OF THE SEVEN REPORTED OPTICAL SUBFLARES /170030Z, 0705Z AND 1239Z/ WERE ACCOMPANIED BY MINOR X-RAY EMISSION. FILAMENT ACTIVITY AND PLAGE BRIGHTENINGS HAVE CONTINUED IN THE 014/015 COMPLEX. THE SIMULTANEOUS FLARES WHICH OCCURRED AT 16/1525-1715Z IN THESE REGIONS IMPLY CLOSE CORONAL INTERACTION BETWEEN THEM. THE SPOT GROUP IN REGION 015 IS NOW A BETA-GAMMA AND THE GROWTH OF SPOTS OF OPPOSING POLARITY IN THE TRAILING PORTION OF THE REGION MAY SOON RESULT IN A DELTA CONFIGURATION. THE GEOMAGNETIC FIELD HAS CONTINUED TO BE INTERMITTENTLY ACTIVE WITH BOULDER K-INDICES RANGING FROM 2 TO 5. THE LARGER DEPARTURES FROM THE NORMAL DIURNAL CURVE WERE IN THE FORM OF RATHER SMOOTH BAYS.

B. GENERALLY MINOR SOLAR ACTIVITY IS EXPECTED TO CONTINUE MOSTLY FROM THE 014/015 COMPLEX. THE MOST ENERGETIC EVENT ANTICIPATED IS AN OCCASIONAL CLASS M1 TO M4 /POSSIBLY ONE EACH 24 HOURS/, PROBABLY FROM REGION 015. THE INTERMITTENTLY ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED TO PREVAIL FOR THE NEXT 12 HOURS, THEN GRADUALLY RETURN TO QUIET, INTERMITTENTLY DISTURBED.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JAN/0000Z ENDING 20 JAN/2400Z.

CLASS M OR GREATER 65/75/65

CLASS X 10/15/10

PROTON EVENT 02/05/05

D. OTTAWA 10.7 CM FLUXES FOR 17/1400Z, 1700Z AND 2000Z WERE 119, 116 AND 118. PREDICTED 10.7 CM FLUXES FOR 18-20 JAN ARE 120/124/124.

E. MAGNETIC A-FREDERICKSBURG FOR 16 JAN WAS 23. FOR 17 JAN ABOUT 20. PREDICTED AP FOR 18-20 JAN ARE 15/10/10.

SOLTERWARN

SPAN

BT