

NNNN

KBOU

HXUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 016 ISSUED 2200Z 16 JAN 1972

LESS THAN 10 NON-ENERGETIC SUBFLARES EXPECTED.

A. YESTERDAY'S SB FLARE AT 1809Z WAS ACCORDING TO SOLRAD-9 AN M2 EVENT A FLARE ASSOCIATED WITH THE NOW SMALL E TYPE GROUP NUMBER 015 NEAR S15E44.

THE 014/015 COMPLEX HAS BEEN THE SOURCE OF 5 OF THE 6 SUBFLARES RECORDED SO FAR TODAY. A 45 MINUTE EVENT (IMP 1N) BEGAN NEAR S13E53 ABOUT 1525Z, WAS OBSERVED TO HAVE MAXIMA AT 1532 AND AGAIN AT 1553, AND RESULTED IN VERY LITTLE X-RAY, CM, AND DECIMETER WAVELENGTH EMISSION. LITTLE GROWTH OR DECAY HAS BEEN APPARENT WITHIN THE THREE GROUPS CURRENTLY VISIBLE. PATCHES OF PLAGE ARE ROTATING INTO VIEW ABOUT N10 AND S12, HOWEVER, NO SPOTS ARE EVIDENT THERE.

K-INDICES AS HIGH AS 5 WERE REACHED DURING THE 4TH AND 6TH 3-HOUR PERIODS IN BOULDER. THE DEVIATIONS TOOK THE FORM OF SMOOTH NEGATIVE BAYS ON THE H AND D TRACES.

B. IN TERMS OF FLARE ACTIVITY THE MOST ENERGETIC EVENT ANTICIPATED DURING THE NEXT THREE DAYS IS AN M1 OR 2 EVERY 24 HOURS, PROBABLY FROM REGION 015 (S15E44) OR THE TWO SMALL PLAGES ROTATING INTO VIEW NEAR N10 AND S12.

THE ACTIVE (A BETWEEN 15 AND 30) GEOMAGNETIC CONDITIONS THAT HAVE PREVAILED SINCE ABOUT 0000Z TODAY SHOULD CONTINUE. LOCAL 3-HOUR RANGE INDICES ARE NOT EXPECTED TO EXCEED K EQUAL FOUR.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 JAN/0000Z ENDING 19 JAN/2400Z.

CLASS M OR GREATER 75/60/50

CLASS X 15/10/05

PROTON EVENT 05/05/02

D. OTTAWA 10.7 CM FLUXES FOR 16/1400Z, 1700Z AND 2000Z WERE 116, 123 AND 118. PREDICTED 10.7 CM FLUXES FOR 17-19 JAN ARE 121/124/124.

E. MAGNETIC A-FREDERICKSBURG FOR 15 JAN WAS ABOUT 11. FOR 16 JAN ABOUT 25. PREDICIED AP FOR 17-19 JAN ARE 16/11/07.

SOLIERWARN

SPAN

~~BT~~