

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 109

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100 TO 18/2100Z: SOLAR ACTIVITY WAS AT A LOW LEVEL THE PAST 24 HOURS. HOWEVER, FREQUENT RADIO BURSTS AND SMALL FLARES FROM REGION 4469 (S15E20) ATTEST TO ITS DYNAMIC CHARACTER. A C9/1B FLARE AT 181225Z (MAX) WAS ACCCOMPANIED BY SMALL RADIO BURSTS THAT RANGED THROUGHOUT THE SPECTRUM. REGION 4471 (N04W46) HAS ALSO REJUVENATED AS IT RESUMED SLOW DEVELOPMENT AND PRODUCED TWO SMALL SUBFLARES. REGION 4468 (N08W36) HAS MANAGED ONLY ONE SUBFLARE SO FAR TODAY. THE REST OF THE DISK IS BASICALLY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE COMING THREE DAY PERIOD. REGION 4469 IS THE PRIME SOURCE FOR M CLASS FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE FOR THE NEXT 72 HOURS.

RECURRENT EFFECTS ARE EXPECTED TO DOMINATE THIS INTERVAL.

III. EVENT PROBABILITIES 19 APR-21 APR

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 APR 118

PREDICTED 19 APR-21 APR 119/120/123

90 DAY MEAN 18 APR 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 APR 006/010

ESTIMATED AFR/AP 18 APR 010/015

PREDICTED AFR/AP 19 APR-21 APR 015/020-015/020-015/025

SOLTERWARN

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