

HFUS 3 80U 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 004

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100Z TO 04/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. REGION 4384

(N16W68) - THE ONLY SPOTTED REGION ON THE DISK - HAS CONTINUED A SLOW GROWTH PATTERN. MT. WILSON SHOWS THE PENUMBRAL GROWTH IN THE TRAILER HAS ENCOMPASSED BOTH POLARITIES, THUS PRODUCING A DELTA CONFIGURATION. HOWEVER, GRADIENTS ARE NOT STRONG.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. AN OCCASIONAL CLASS C EVENT IS POSSIBLE FROM REGION 4384 PRIOR TO WEST LIMB PASSAGE ON 07 JANUARY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. HOWEVER, A STRONG SUBSTORM IN THE 06-09Z TIME PERIOD PRODUCED A K6 READING AT BOULDER AND STRONGER VALUES AT HIGHER LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 05 JAN-07 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JAN 095

PREDICTED 05 JAN-07 JAN 097/096/094

90 DAY MEAN 04 JAN 098

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 JAN 013/022

ESTIMATED AFR/AP 04 JAN 022/030

PREDICTED AFR/AP 05 JAN-07 JAN 015/015-015/020-020/025

SOLTERWARN

BT