

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 JANUARY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ONLY A FEW SMALL C-CLASS X-RAY FLARES HAVE BEEN REPORTED TODAY. FLARES WERE RECORDED FROM REGIONS 2237 (N09W67), 2241 (N29W31), 2247 (S13E41), 2251 (S19W10) AND 2238 (S18W48). ALL REGIONS HAD SUB-NORMAL OR SMALLER EVENTS. NEW REGION TODAY 2253 (N14E59) SIMPLE BT TYPE GROUP. REGION 2243 (S15E07) HAS SHOWN MINOR DECAY IN THE LEADER AND TRAILER PORTION. HOWEVER, ARCH FILAMENTS HAVE BEEN OBSERVED IN THE CENTRAL PORTION OF THE REGION, SOME RESTSTRUCTURING MAY BE GOING ON.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE NEXT 24 HOURS. REGION 2243 APPEARS TO HAVE THE HIGHEST PROBABILITY OF PRODUCING A SIGNIFICANT FLARE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE QUIET FOR THE NEXT 48 HOURS AND UNSET-TLED THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 19-21 JANUARY

CLASS M 05/05/05

CLASS X 01/01/01

PROMPT 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JAN 183

PREDICTED 19-21 JAN 180/178/179

90-DAY MEAN 18 JAN 220

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 17 JAN 11

ESTIMATED AFR/AP 18 JAN 05/05

PREDICTED AFR/AP 19-21 JAN 06/08 06/08 08/08

SOLTERWARN

BT