

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 916

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 16 JANUARY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS, WITH C-CLASS XRAY ACTIVITY HAVING BEEN NOTED WITH FLARES IN REGIONS 2245 (N14E5.8), 2243 (S15E34), 2235 (N21W38). REGION 2238 (S18W22) REMAINED MOSTLY STABLE TODAY, AND REGION 2243 SHOWED THE MOST SIGNIFICANT GROWTH INCREASING IN WHITE LIGHT AREA AND SPOT COUNT AND BECOMING MODERATELY COMPLEX (BETA-GAMMA) MAGNETICALLY. TWO NEW REGIONS WERE NUMBERED ON THE DISK. THEY ARE 2249 (N09W24), A B-TYPE GROUP, AND 2250 (S32E07) AN A-TYPE SPOT.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW LEVELS, WITH THE HIGHEST PROBABILITIES OF M-CLASS X-RAY ACTIVITY FROM REGIONS 2243 AND 2238.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET FOR THE LAST 24 HOURS. THE FIELD IS EXPECTED TO REMAIN QUIET TOMORROW, INCREASING TO MILDLY UNSETLED LEVELS FOR THE NEXT TWO DAYS AS THE MOSTLY HEAVILY SPOTTED LONGITUDES ROTATE BEYOND THE FAVORABLE EARTH-SUN CONNECTIONS LONGITUDE.

III. EVENT PROBABILITIES 17 JANUARY - 19 JANUARY

CLASS M 30/30/30

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 16 JANUARY 195

PREDICTED 17-19 JANUARY 185/185/181

90-DAY MEAN 16 JANUARY 221

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 15 JANUARY 05

ESTIMATED AFR/AP 16 JANUARY 09/09

PREDICTED AFR/AP 17-19 JANUARY 06/10 10/12 10/12

SOLARWARN

BT