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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 049

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 18 FEBRUARY 1980

I. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 2283 (S19W02) SIMPLIFIED CONSIDERABLY AND IS NO LONGER CONSIDERED A THREAT. REGION 2281 (N10W30) REMAINED MOSTLY STABLE IN WHITE LIGHT BUT FORMED AN ARCH FILAMENT SYSTEM. REGION 2287 (S05E57) IS BECOMING MORE INTERESTING AS IT ROTATES INTO BETTER VIEW. IT IS A REVERSED POLARITY REGION WITH A NEARLY CIRCULAR, ACTIVE INVERSION LINE FILAMENT. A NEW REGION WAS NUMBERED 2288 (N13E68) LARGELY ON THE BASIS OF COMPACT, BRIGHT PLAGE. SUBLARES WERE OBSERVED TODAY IN REGIONS 2281, 2283, AND 2287.

II. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT LOW LEVELS PENDING DEVELOPMENT IN 2281 AND/OR 2287.

III. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETLED BUT MOSTLY QUIET FOR THE PAST 24 HOURS. A SECTOR BOUNDARY IS THE ONLY FACTOR WHICH WOULD INDICATE A CHANGE FROM PREDOMINATELY QUIET LEVELS FOR THE NEXT SEVERAL DAYS.

III. EVENT PROBABILITIES 19 FEBRUARY - 21 FEBRUARY:

CLASS M 3.0/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 FEB 187

PREDICTED 19 - 21 FEB 181/176/172

90-DAY MEAN 18 FEB 205

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 17 FEB 06

ESTIMATED AFR/AP 18 FEB 08/10

PREDICTED AFR/AP 19 - 21 FEB 06/14 10/20 06/12

SOLTERWARN

BT