

HFUS 1 BOU 22200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 002

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 JANUARY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGIONS
2215 (S13E04) AND 2220 (N13E44) HAVE RESTRUCTURED AND DECAYED
SOMEWHAT ALTHOUGH 2215 IS STILL VERY COMPLEX MAGNETICALLY AND
BOTH REGIONS STILL HAVE GOOD FLARE POTENTIAL. REGION 2219 (S24E24)
GREW TODAY FROM AN A-SPOT TO A D-TYPE GROUP, AND 4 NEW SMALL
REGIONS WERE NUMBERED. THREE OF THE NEW REGIONS APPEARED ON THE
DISK AND THE FOURTH REGION 2227 (S19E68), IS RETURNING REGION
2203. THERE ARE ACTIVE PROMINENCES ON THE EAST LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE OWING TO THE FLARE
POTENTIAL IN REGIONS 2215, 2220, AND THE INCREASING NUMBER OF
SPOTTED REGIONS ON THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET FOR THE PAST
24 HOURS. THE FIELD IS EXPECTED TO BE QUIET FOR THE NEXT 2 DAYS,
BECOMING UNSETTLED TO ACTIVE ON THE THIRD DAY OWING TO THE POTENTIAL
EFFECTS OF AN EQUATORIAL CORONAL HOLE AND CORONAL RESTRUCTURING
EVIDENCED BY A FILAMENT DISAPPEARANCE (LOCATION APPROXIMATELY S40,
CENTRAL MERIDIAN) ON 1 JANUARY.

III. EVENT PROBABILITIES 03 JANUARY - 05 JANUARY

CLASS M 70/75/80

CLASS X 10/15/20

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JANUARY 210

PREDICTED 03-05 JANUARY 217/221/223

90-DAY MEAN 02 JANUARY 219

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 JANUARY 15-

ESTIMATED AFR/AP 02 JANUARY 10/12

PREDICTED AFR/AP 03-05 JANUARY 07/08 07/10 15/20

SOLTERWARN

BT