

HFUS 3 BOU 311400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 3664

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 31 DEC 1980

IA. SOLAR ACTIVITY HAS DIMINISHED, REMAINING MARGINALLY AT MODERATE LEVELS WITH ONLY C8 MAXIMUM XRAY ACTIVITY AND SUB-CLASS OPTICALLY WITH SOME CENTIMETRIC OUTPUT IN FLARES OCCURRING TODAY. THE LARGEST XRAY OUTPUT WAS UNASSOCIATED, BUT FLARES HAVE BEEN OBSERVED IN REGIONS 2855 (S23W38), 2856 (N20W28), 2866 (N14W52), 2868 (N10E39), AND IN A NEW REGION 2870 LOCATED (N14W54) AT 31/0900 UT. MAGNETIC GRADIENTS APPEAR SMALL IN ALL REGIONS AND DECLINING IN REGION 2857 (S07W17). REGIONS 2866, 2868, 2869 (N09E49), 2870 ARE GROWING IN SPOTS AND COMPLEXITY. ARCH FILAMENTS HAVE BEEN OBSERVED IN SEVERAL REGIONS INCLUDING THE NEW REGION.

IB. SOLAR ACTIVITY CAN BE EXPECTED TO REMAIN MODERATE. NONE OF THE CURRENT REGIONS LOOKS CAPABLE OF INTENSE ACTIVITY, BUT M CLASS ACTIVITY IS MADE MORE LIKELY BY THE COLLECTIVE CAPABILITY OF THE REGIONS MENTIONED.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO REMAIN MOSTLY UNSETTLED DUE PRIMARILY TO FLARE ACTIVITY OF RECENT DAYS.

III. EVENT PROBABILITIES: 01-03 JAN

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

RCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 DEC 2.17

ESTIMATED 31 DEC 2.13

PREDICTED 01-03 JAN 2.09/2.04/2.00

90 DAY MEAN 30 DEC 2.18

V. GEOMAGNETIC A INDICES

OBSERVED AFR 29 DEC 12 AP 30 DEC 14

ESTIMATED AFR 30 DEC 13 AFR/AP 31 DEC 10/12

PREDICTED AFR/AP 01-03 JAN 12/12 08/06 08/06

SOLTERWARN

BT

HFUS 1 BOU 3 12200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 366B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 31 DECEMBER 1980

IA. SOLAR ACTIVITY HAS DIMINISHED, REMAINING marginally at moderate levels with only C8 maximum XRAY ACTIVITY AND SUB-CLASS OPTICALLY WITH SOME CENTIMETRIC OUTPUT IN FLARES OCCURRING TODAY. THE LARGEST XRAY OUTPUT WAS UNASSOCIATED, BUT FLARES HAVE BEEN OBSERVED IN REGIONS 2855 (S23W38), 2856 (N29W28), 2866 (N14W52), 2868 (N10E39), AND IN A NEW REGION 2870 LOCATED (N14W54) AT 31/0900 UT. MAGNETIC GRADIENTS APPEAR SMALL IN ALL REGIONS AND DECLINING IN REGION 2857 (S07W17). REGIONS 2866, 2868, 2869 (N09E49), 2870 ARE GROWING IN SPOTS AND COMPLEXITY. ARCH FILAMENTS HAVE BEEN OBSERVED IN SEVERAL REGIONS INCLUDING THE NEW REGION.

ADDITIONS TO 1200Z FORECAST: NO SIGNIFICANT ACTIVITY HAS BEEN REPORTED. A SMALL NEW REGION 2871 (N19W04) DEVELOPED ON THE DISK WITH A B TYPE SPOT GROUP.

IB. SOLAR ACTIVITY CAN BE EXPECTED TO REMAIN MODERATE. NONE OF THE CURRENT REGIONS LOOKS CAPABLE OF INTENSE ACTIVITY, BUT M CLASS ACTIVITY IS MADE MORE LIKELY BY THE COLLECTIVE CAPABILITY OF THE REGIONS MENTIONED.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO REMAIN MOSTLY UNSETTLED DUE PRIMARILY TO FLARE ACTIVITY OF RECENT DAYS.

III. EVENT PROBABILITIES: 01-03 JAN

CLASS M 60/55/55

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 31 DEC 206

PREDICTED 01-03 JAN 203/198/194

90 DAY MEAN 31 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 DEC 13/14

ESTIMATED AFR/AP 31 DEC 10/09

PREDICTED AFR/AP 01-03 JAN 12/12 08/06 08/06

SOLTERWARN

BT