

HFUS 3 BOU 241400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 359 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 24 DECEMBER 1980

IA. SOLAR ACTIVITY REMAINS BASICALLY LOW. THE ONLY SIGNIFICANT EVENT WAS A M3/SN-BSL AT 23/2112Z FROM REGION 2857 (S08E76). THIS REGION IS IN THE RELATIVE POSITION OF OLD REGION 2810; WHICH PRODUCED FIVE CLASS M EVENTS BUT WHICH DECREASED IN FLARE ACTIVITY THE LAST 5 DAYS IT WAS ON THE DISK. SURGING CONTINUES BEHIND THE TRAILER OF REGION 2857 WITH PERHAPS MORE STRUCTURE TO ROTATE ON TO THE VISIBLE DISK. REGION 2859 (S22E07) IS EMERGING RAPIDLY. REGIONS 2856 (N25E62) AND 268 (S19E70) HAVE ALSO BEEN ADDED THE PAST 24 HOURS BUT BOTH APPEAR TO BE MATURE, STABLE REGIONS. THOUGH FLUCTUATING FLARE BRIGHTNESS HAS BEEN REPORTED FOR MOST DISK REGIONS; NONE, WITH THE EXCEPTION OF REGION 2857, APPEAR CAPABLE OF PRODUCING CLASS M ACTIVITY. AND REGION 2857 CURRENTLY IS TOO CLOSE TO THE LIMB FOR PROPER EVALUATION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH ISOLATED CLASS M ACTIVITY POSSIBLE FROM REGION 2857. PROBABILITIES MAY CHANGE RAPIDLY DEPENDING ON LATTER EVALUATION OF THE POTENTIAL IN REGION 2857.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO REMAIN QUIET WITH A TENDENCY TOWARD UNSETTLED CONDITIONS THE LATTER PORTION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 25-27 DEC

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 DEC 234

ESTIMATED 24 DEC 228

PREDICTED 25-27 DEC 220/220/220

90 DAY MEAN 23 DEC 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 DEC 12 / AP 23 DEC 06

ESTIMATED AFR 23 DEC 07 / AFR/AP 24 DEC 02/06

PREDICTED AFR/AP 25-27 DEC 06/08 06/08 08/10

SOLTERWARN

BT

HFUS 1 BOU 242215

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 359B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 24 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 2857 IS IN THE RELATIVE POSITION OF OLD REGION 2810 WHICH PRODUCED FIVE CLASS M EVENTS BUT DECREASED IN FLARE ACTIVITY THE LAST 5 DAYS IT WAS ON THE DISK. SURGING CONTINUES BEHIND THE TRAILER OF REGION 2857 WITH PERHAPS MORE STRUCTURE TO ROTATE ON TO THE VISIBLE DISK. REGION 2859 (S22E07) IS EMERGING RAPIDLY. REGIONS 2856 (N25E62) AND 2858 (S29E70) HAVE ALSO BEEN ADDED THE PAST 24 HOURS BUT BOTH APPEAR TO BE MATURE, STABLE REGIONS. THOUGH FLUCTUATING FLARE BRIGHTNESS HAS BEEN REPORTED FOR MOST DISK REGIONS: NONE, WITH THE EXCEPTION OF REGION 2857, APPEAR CAPABLE OF PRODUCING CLASS M ACTIVITY.

ADDITIONS TO 24/1200Z MESSAGE: REGION 2860 (N15W45), 2861 (N18W31), REGION 2862 (S15E37) AND 2863 (N25E77) WERE NUMBERED TODAY BUT ALL ARE SIMPLE UNIPOLAR SPOTS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH ISOLATED CLASS M ACTIVITY POSSIBLE FROM REGION 2857. PROBABILITIES MAY CHANGE RAPIDLY DEPENDING ON LATER EVALUATION OF THE POTENTIAL IN REGION 2857.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO REMAIN QUIET WITH A TENDENCY TOWARD UNSETTLED CONDITIONS THE LATTER PORTION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 DECEMBER - 27 DECEMBER

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DECEMBER 231

PREDICTED 25-27 DECEMBER 220/220/220

90-DAY MEAN 24 DECEMBER 215

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 DECEMBER 08/06

ESTIMATED AFR/AP 24 DECEMBER 02/06

PREDICTED AFR/AP 25-27 DECEMBER 06/08 - 06/08 - 08/10

SOLTERWARN

BT