

HFUS 3 BOU 281400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 363A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 28 DEC 1980

I A. SOLAR ACTIVITY WAS LOW SINCE THE M1/1B AT 27/1018 UT. THE ONLY FLARE ACTIVITY SINCE 1200 UT YESTERDAY HAS BEEN SUBFLARES, PRIMARILY FROM REGIONS 2855 (S24E02) AND 2857 (S27E21). THESE TWO REGIONS HAVE NOT LOST THEIR APPARENT M-CLASS FLARE POTENTIAL. ALTHOUGH THE DELTA IN REGION 2855 MAY HAVE BEEN SHORT LIVED, CONTINUED GROWTH IN REGION 2857 IS EVIDENT. REGIONS 2856 (N26E10), 2865 (N25E19), AND 2866 (N17E08) HAVE PRODUCED ONE, ONE, AND FOUR SUBFLARES REPECTIVELY SINCE 1200 UT YESTERDAY. REGION 2866 DISPLAYS CHARACTERISTICS TYPICAL OF A PERSISTENTLY ERUPTIVE REGION AND THE ERUPTIVE NATURE OF REGION 2865 APPEARS UNDIMINISHED.

B. MODERATE SOLAR ACTIVITY IS EXPECTED TO RESUME DUE TO SUSTAINED CHARACTERISTICS OF ACTIVITY IN REGIONS 2857 AND 2855.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED ON 27 DEC AND BECAME QUIET FOR THE FIRST HALF OF 28 DEC. THE FIELD IS EXPECTED TO BE QUIET TO MILDLY UNSETTLED FROM 28-31 DEC.

III. EVENT PROBABILITIES: 29 - 31 DEC

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 27 DEC 228

ESTIMATED 28 DEC 225

PREDICTED 29-31 DEC 221/218/216

90 DAY MEAN 27 DEC 216

V. GEOMAGNETIC ACTIVITIES

OBSERVED AFR 26 DEC 07 AP 27 DEC 11

ESTIMATED AFR 27 DEC 12 AFR/AP 28 DEC 04/06

PREDICTED AFR/AP 29-31 DEC 06/07 07/07 08/09

SOLIERWARN

BT

HFUS 1 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SD F NUMBER 363B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 28 DEC 1980

I A. SOLAR ACTIVITY WAS LOW SINCE THE M1/1B AT 27/1018 UT.
THE ONLY FLARE ACTIVITY SINCE 1200 UT YESTERDAY HAS BEEN
SUBFLARES, PRIMARILY FROM REGIONS 2855 (S24E02) AND 2857
(S27E21). THESE TWO REGIONS HAVE NOT LOST THEIR APPARENT
M-CLASS FLARE POTENTIAL. ALTHOUGH THE DELTA IN REGION 2855
MAY HAVE BEEN SHORT-LIVED, CONTINUED GROWTH IN REGION 2857 IS
EVIDENT. REGIONS 2856 (N26E10), 2865 (N25E19), AND 2866
(N17E08) HAVE PRODUCED ONE, ONE, AND FOUR SUBFLARES RESPECTI-
VELY SINCE 1200 UT YESTERDAY. REGION 2866 DISPLAYS CHARACTER-
ISTICS TYPICAL OF A PERSISTENTLY ERUPTIVE REGION AND THE
ERUPTIVE NATURE OF REGION 2865 APPEARS UNDIMINISHED.
ADDITIONS TO 28/1200Z MESSAGE: REGION 2855 (S24W05) PRODUCED
AN M1/SB WITH MAXIMUM AT 28/1907 UT. THIS BURST WAS ACCOMP-
ANIED BY SMALL RADIO RESPONSES FROM 245 TO 15400 MHZ. NEW
REGION 2868 (N11E71) HAS BEEN REPORTED.

I B. MODERATE SOLAR ACTIVITY IS EXPECTED TO RESUME DUE TO
SUSTAINED CHARACTERISTICS OF ACTIVITY IN REGIONS 2857 AND
2855.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED ON 27 DEC AND BECAME
QUIET FOR THE FIRST HALF OF 28 DEC. THE FIELD IS EXPECTED TO
BE QUIET TO MILDLY UNSETTLED FROM 28-31 DEC.

III. EVENT PROBABILITIES: 29 - 31 DEC

CLASS M 50/50/50

CLASS X 05/05/05

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 28 DEC 244

PREDICTED 29-31 DEC 235/232/229

90 DAY MEAN 28 DEC 217

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 27 DEC 11/11

ESTIMATED AFR/AP 28 DEC 07/06

PREDICTED AFR/AP 29-31 DEC 06/07 07/07 08/09

SOLTERWARN

BT