

HFUS 3 BOU 301400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 36A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 30 DEC 1980

I. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 2855 (S24W25) PRODUCED AN M2/2B FLARE, MAXIMUM OCCURRING AT 29/1309Z AND AN M1/SN FLARE, MAXIMUM OCCURRING AT 29/1454Z. BOTH EVENTS PRODUCED ASSOCIATED GEOMAGNETIC ACTIVITY. REGION 2855 WAS RESPONSIBLE FOR VIRTUALLY ALL ACTIVITY IN THE PERIOD OCCURRING BEFORE 30/0100. REGIONS 2857 (S07E07), 2866 (N15W18), HAVE GROWN IN SPOT NUMBER AND PLAGE INTENSITY. REGION 2857 HAS SHOWN DEVELOPMENT AND RESTRUCTURING IN THE MID SECTION. LOW LEVELS OF FLARE ACTIVITY ARE OCCURRING IN BOTH REGIONS WITH INCREASED FREQUENCY. REGION 2855 IS REPORTED DEACYING AND SIMPLIFYING AND REGION 2857 SHOWS DIMINISHED MAGNETIC GRADIENTS.

II. SOLAR ACTIVITY MAY BE EXPECTED TO CONTINUE AT MODERATE LEVELS WITH SOME OF THAT ACTIVITY CONTINUING IN REGION 2855 AND WITH SOMEWHAT INCREASED LEVELS OF ACTIVITY CONTINUING FROM REGIONS 2857 AND 2866.

III. THE GEOMAGNETIC FIELD HAS REACHED MINOR MAG STORM LEVELS FOLLOWING SUDDEN COMMENCEMENT AT 0738UT 30 DEC. THE FIELD IS EXPECTED TO REMAIN ACTIVE, DIMINISHING TO UNSETLED TO NEAR ACTIVE LEVELS THROUGH 01 JAN.

III. EVENT PROBABILITIES: 31 DEC - 02 JAN

CLASS M 60/60/60

CLASS X 02/05/05

PREDICTON 01/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 DEC 225

ESTIMATED 30 DEC 220

PREDICTED 31 DEC-02 JAN 218/215/210

90 DAY MEAN 29 DEC 217

V. GEOMAGNETIC INDICES

OBSERVED AFR 28 DEC 04 AP 29 DEC 08

ESTIMATED AFR 29 DEC 08 AFR/AP 30 DEC 20/20

PREDICTED AFR/AP 31 DEC-02 JAN 15/12 12/12 10/06

SOLTERWARN

BT

4FUS-1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 365B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 30 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 2855 (S24W25) PRODUCED AN M2/2B FLARE, MAXIMUM OCCURRING AT 29/1309Z AND AN M1/SN FLARE, MAXIMUM OCCURRING AT 29/1454Z. BOTH EVENTS PRODUCED ASSOCIATED GEOMETRIC ACTIVITY. REGION 2855 WAS RESPONSIBLE FOR VIRTUALLY ALL ACTIVITY IN THE PERIOD OCCURRING BEFORE 30/0100. REGIONS 2857 (S07E07), 2866 (N15W18), HAVE GROWN IN SPOT NUMBER AND PLAGE INTENSITY. REGION 2857 HAS SHOWN DEVELOPMENT AND RESTRUCTURING IN THE MID SECTION. LOW LEVELS OF FLARE ACTIVITY ARE OCCURRING IN BOTH REGIONS WITH INCREASED FREQUENCY. REGION 2855 IS REPORTED DECAYING AND SIMPLIFYING AND REGION 2857 SHOWS DIMINISHED MAGNETIC GRADIENTS.

ADDITIONS TO 1200Z FORECAST: NO SIGNIFICANT ACTIVITY OR CHANGES HAVE BEEN REPORTED.

IB. SOLAR ACTIVITY MAY BE EXPECTED TO CONTINUE AT MODERATE LEVELS WITH SOME OF THAT ACTIVITY CONTINUING IN REGION 2855 AND WITH SOMEWHAT INCREASED LEVELS OF ACTIVITY CONTINUING FROM REGIONS 2857 AND 2866.

II. THE GEOMAGNETIC FIELD REACHED MINOR MAG STORM LEVELS FOLLOWING A SUDDEN COMMENCEMENT AT 0738UT 30 DEC. THE FIELD IS EXPECTED TO REMAIN UNSETTLED TO NEAR ACTIVE THROUGH 01 JAN.

III. EVENT PROBABILITIES: 31 DEC - 02 JAN

CLASS M 60/60/60

CLASS X 02/05/05

PROTON 01/02/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 DEC 217

PREDICTED 31 DEC-02 JAN 218/215/210

90 DAY MEAN 30 DEC 218

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 29 DEC 12/08

ESTIMATED AFR/AP 30 DEC 12/15

PREDICTED AFR/AP 31 DEC-02 JAN 15/12 12/12 10/06

SOLTERWARN

BT