

HFUS 3 BOU 231400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 358A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 23 DECEMBER 1980

IA. SOLAR ACTIVITY CONTINUES TO BE LOW. MOST OF THE FLARING HAS OCCURRED IN REGION 2841 (N12W62) WITH THE MOST SIGNIFICANT BEING A C7/2N AT 23/0049Z AND A C3/1N AT 23/0632Z. HOWEVER, THE SUN-SPOT STRUCTURE IS DECAYING RAPIDLY IN REGION 2841 AND MAY NOW BE SPOTLESS. NO STRIKING STRUCTURAL CHANGES HAVE OCCURRED IN ANY OF THE OTHER DISK REGIONS TO INDICATE ANY IMMINENT UPSWING IN FLARE ACTIVITY. H-TYPE SPOTS ARE ROTATING ON TO THE DISK NEAR NE28 AND SE28. CURRENTLY IT IS UNKNOWN IF THE SPOT AT SE28 IS THE TRAILER TO REGION 2855 OR A SEPARATE REGION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 24-26 DEC

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 22 DEC 239

ESTIMATED 23 DEC 232

PREDICTED 24-26 DEC 225/220/220

90 DAY MEAN 23 DEC 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 DEC 24 AP 22 DEC 09

ESTIMATED AFR 22 DEC 10 AFR/AP 23 DEC 06/12

PREDICTED AFR/AP 24-26 DEC 12/12 08/10 08/10

SOLTERWARN

BT

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 358B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 23 DEC 1980

IA. SOLAR ACTIVITY CONTINUES TO BE LOW. MOST OF THE FLARING HAS OCCURRED IN REGION 2841 (N12W62) WITH THE MOST SIGNIFICANT BEING A C7/2N AT 23/0049Z AND A C3/1N AT 23/0632Z. HOWEVER, THE SUN-SPOT STRUCTURE IS DECAYING RAPIDLY IN REGION 2841 AND MAY NOW BE SPOTLESS. NO STRIKING STRUCTURAL CHANGES HAVE OCCURRED IN ANY OF THE OTHER DISK REGIONS TO INDICATE ANY IMMINENT UPSWING IN FLARE ACTIVITY. H-TYPE SPOTS ARE ROTATING ON TO THE DISK NEAR NE28 AND SE28. CURRENTLY IT IS UNKNOWN IF THE SPOT AT SE28 IS THE TRAILER TO REGION 2855 OR A SEPARATE REGION.

ADDITIONS TO 23/1200Z MESSAGE: THE REGION SE OF 2855 IS NUMBER 2858 (S29E77) AND MAGNETIC DELTA INDICATES IT IS INDEPENDENT OF REGION 2855. REGION 2857 (S08E76) PRODUCED AN M3/-SN AT 23/2112Z THAT WAS ACCOMPANIED BY A SURGE THAT EXTENDED OUT TO .14 RADIUS.

IB. SOLAR ACTIVITY MAY TAKE AN UPSWING IF THE INITIAL INDICATIONS FROM REGION 2857 PROVE VALID.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. QUIET TO UNSETTLED CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES: 24 DEC - 26 DEC

CLASS M 10/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 DEC 234

PREDICTED 24-26 DEC 225/220/220

90 DAY MEAN 23 DEC 214

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 DEC 12/09

ESTIMATED AFR/AP 23 DEC 107/07

PREDICTED AFR/AP 24-26 DEC 12/12 08/10 08/10

SOLTERWARN

BT