

HFUS 3 204 09 1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 344A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 9 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE MOST SIGNIFICANT X-RAY EVENT WAS A GRADUAL RISE/FALL (GRF) BETWEEN 09/0615UT AND 09/1005 UT, REACHING THE C8 LEVEL. THIS EVENT WAS POSSIBLY RELATED TO A DISAPPEARING FILAMENT IN THE SOUTH-WEST. ABOUT 15 SUBFLARES WERE OBSERVED DURING THE PAST 24 HOURS, WITH FIVE OF THEM FROM REGION 2828 (S06E18 AT 1200UT). HOWEVER, LEARMONTH, AUSTRALIA DESCRIBED THIS REGION AS

HAVING LESS POTENTIAL THAN IT DID EARLIER. REGION 2829 (S12E18) HAS SMALL AREA IN H-ALPHA, BUT IS RATHER ACTIVE WITH REGARD TO FLARE ENHANCEMENT, ARCH FILAMENT SYSTEM, AND RADIO BURSTS.

IB. SOLAR ACTIVITY SHOULD REMAIN AT LOW LEVELS. M-CLASS X-RAY EVENTS ARE NOT LIKELY, ESPECIALLY AFTER 2810 (S11W87) ROTATES OFF THE DISK. CONTINUED GROWTH IN 2829 MAY WARRANT RAISING THE FLARE PROBABILITIES FOR 11-12 DEC, BUT IT'S TOO SOON TO BE CERTAIN NOW.

II. GEOMAGNETIC ACTIVITY HAS BEEN MOSTLY UNSETTLED. A CORONAL HOLE-RELATED DISTURBANCE OF THE FIELD MAY POSSIBLY HAVE BEGUN AT 09/0630 UT. UNSETTLED LEVELS ARE EXPECTED TO PERSIST.

III. EVENT PROBABILITIES: 10-12 DEC

CLASS M 4 0/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 8 DEC 175

ESTIMATED 9 DEC 172

PREDICTED 10-12 DEC 169/166/166

90 DAY MEAN 8 DEC 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 7 DEC 06 AP 08 DEC 06

ESTIMATED AFR 08 DEC 07 AFR/AP 09 DEC 12/12

PREDICTED AFR/AP 10-12 DEC 12/13 10/12 10/12

SOLTERWARN

BT

HEUS 1 80H 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF NUMBER 344B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 09 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE MOST SIGNIFICANT X-RAY EVENT WAS A GRADUAL RISE/FALL (GRF) BETWEEN 09/0615UT AND 09/1005 UT, REACHING THE C8 LEVEL. THIS EVENT WAS POSSIBLY RELATED TO A DISAPPEARING FILAMENT IN THE SOUTHWEST. ABOUT 15 SURFLARES WERE OBSERVED DURING THE PAST 24 HOURS, WITH FIVE OF THEM FROM REGION 2828 (S06E18 AT 1200UT). HOWEVER, LEARMONTH, AUSTRALIA DESCRIBED THIS REGION AS HAVING LESS POTENTIAL THAN IT DID EARLIER. REGION 2829 (S12E18) HAS SMALL AREA IN H-ALPHA, BUT IS RATHER ACTIVE WITH REGARD TO FLARE ENHANCEMENT, ARCH FILAMENT SYSTEM, AND RADIO BURSTS. ADDITIONS TO 1200Z: THE C8 AT 09/0615Z WAS CONFIRMED BY MEUDON AND CULGOORA AS BEING ASSOCIATED WITH A DISAPPEARING FILAMENT FOLLOWED BY A LONG-LIVED, PARALLEL RIBBON 2N FLARE AT S18W43. REGIONS 2826 (N15E35) AND 2829 CONTINUE A SLOW GROWTH PATTERN. FIVE NEW REGIONS HAVE BEEN ADDED TODAY BUT ALL CURRENTLY ARE SMALL AND SIMPLE IN STRUCTURE.

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II. GEOMAGNETIC ACTIVITY HAS BEEN MOSTLY UNSETTLED. A CORONAL HOLE-RELATED DISTURBANCE OF THE FIELD MAY POSSIBLY HAVE BEGUN AT 09/0630 UT. UNSETTLED LEVELS ARE EXPECTED TO PERSIST.

III. EVENT PROBABILITIES: 10-12 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 09 DEC 181

PREDICTED 10-12 DEC 174/173/171

90 DAY MEAN 09 DEC 200

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 08 DEC 08/06

ESTIMATED AFR/AP 09 DEC 09/10

PREDICTED AFR/AP 10-12 DEC 12/13 10/12 10/12

SOLTERWARN

BT