

HFUS 3 BOU 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

I A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE MOST SIGNIFICANT X-RAY EVENT WAS A GRADUAL RISE/FALL (GR/F) BETWEEN 09/0615 UT AND 09/1005 UT, REACHING THE C8 LEVEL. THIS EVENT WAS POSSIBLY RELATED TO A DISAPPEARING FILAMENT IN THE SOUTHWEST. ABOUT 15 SUBFLARES WERE OBSERVED DURING THE PAST 24 HOURS, WITH FIVE OF THEM FROM REGION 2828 (S06E18 AT 1200UT). HOWEVER, LEARMONT H, 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 PLAGE ENHANCEMENT, ARCH FILAMENT SYSTEM, AND RADIO BURSTS.

I B. 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 UNSETLED. A CORONAL HOLE-RELATED DISTURBANCE OF THE FIELD MAY POSSIBLY HAVE BEGUN AT 09/0630 UT. UNSETLED LEVELS ARE EXPECTED TO PERSIST.

III. EVENT PROBABILITIES: 10-12 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROT ON 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 1202

V. GEOMAGNETIC INDICES

OBSERVED AFR 7 DEC 06 APR 08 DEC 06

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

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

SOLIERWARN

BT

HFUS 1 BOU 092200

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

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

I. 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, LEARMOUTH, 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 S18W40. 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.

II. 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.

III. GEOMAGNETIC ACTIVITY HAS BEEN MOSTLY UNSETTLED. A CORONAL HOLE-RELATED DISTURBANCE OF THE FIELD MAY POSSIBLY HAVE BEGUN AT 09/0530 UT. UNSETTLED LEVELS ARE EXPECTED TO PERSIST.

IV. EVENT PROBABILITIES: 10-12 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 FLUX

OBERVED 09 DEC 181

PREDICTED 10-12 DEC 174/173/171

90 DAY MEAN 09 DEC 202

VI. GEOMAGNETIC INDICES

OBERVED AFR/AP 08 DEC 08/06

ESTIMATED AFR/AP 09 DEC 09/10

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

SOLTERWARN

BT