

HFUS 3 BOU 05 14 00

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SOF NUMBER 340A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 05 DECEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST XRAY EVENT WAS A C3. SUBFLARES HAVE BEEN MOST FREQUENT IN REGION 2810 (S11W32) WHOSE LARGE CLASS E SPOT GROUP IS DIFFICULT TO SEPARATE FROM THE GROWING GROUP 2816 (S09W22) THAT APPEARS TO BE COLLIDING WITH 2810. THE INTERACTION CONTINUES TO GIVE THIS AREA POTENTIAL FOR LARGER EVENTS. A WEAK DELTA MAGNETIC CONFIGURATION CONTINUES HERE. MINOR GROWTH IS REPORTED WITHIN THE SMALL DELTA CONFIGURATION IN REGION 2809 (N22W38). THE HIGHLY CONVOLUTED NEUTRAL LINE IN THIS REGION AND THE ENHANCED LARGE-SCALE SHEAR NEAR THIS LOCATION PROMISE ADDITIONAL GROWTH. ACTIVITY HAS INCREASED SLIGHTLY IN REGION 2824 (S13E42) WHICH IS MARKED BY A SINGLE SPOT REMAINING FROM A VERY ACTIVE COMPLEX ON THE PREVIOUS DISK PASSAGE. LARGE-SCALE SHEAR IN THIS AREA MAY PRODUCE ADDITIONAL MINOR ACTIVITY THROUGHOUT THE DISK PASSAGE OF THIS REGION.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW FOR AT LEAST ANOTHER 24 HOURS. DEVELOPMENTS IN ONE OR MORE OF THE THREE REGIONS MENTIONED ABOVE ARE EXPECTED TO BRING SLOWLY INCREASING ACTIVITY DURING THE REMAINDER OF THIS FORECAST PERIOD. ADDITIONAL ACTIVITY IS EXPECTED AT OR NEAR THE SOUTHEAST LIMB AS LARGE-SCALE PROCESSES FAVOR ACTIVE REGION FORMATION.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED EARLY IN THE PAST 24-HOUR PERIOD BUT BECAME QUIET AT THE BEGINNING OF 05 DECEMBER. QUIET CONDITIONS ARE EXPECTED FOR THE NEXT TWO DAYS AS THE EARTH IS ALIGNED WITH SOLAR LONGITUDES WITH CLOSED MAGNETIC TOPOLOGY. UNSETTLED TO OCCASIONALLY ACTIVE CONDITIONS WILL OCCUR ON THE THIRD DAY AS THE EARTH ENTERS A STREAM OF ENHANCED SOLAR WIND EMANATING FROM OPEN MAGNETIC FIELDS ASSOCIATED WITH A CORONAL HOLE.

III. EVENT PROBABILITIES: 06-08 DECEMBER

CLASS M 45/60/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 DEC 205

ESTIMATED 05 DEC 200

PREDICTED 06-08 DEC 195/192/190

90 DAY MEAN 04 DEC 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 DEC 20 AP 04 DEC 07

ESTIMATED AFR 04 DEC 10 AFR/AP 05 DEC 05/06

PREDICTED AFR/AP 06-08 DEC 07/10 07/10 14/12

SOLTERWARN

BT

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 3408

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 05 DEC 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST XRAY EVENT WAS A C3. SUBFLARES HAVE BEEN MOST FREQUENT IN REGION 2810 (S11W32) WHOSE LARGE CLASS E SPOT GROUP IS DIFFICULT TO SEPARATE FROM THE GROWING GROUP 2816 (S09W22) THAT APPEARS TO BE COLLIDING WITH 2810. THE INTERACTION CONTINUES TO GIVE THIS AREA POTENTIAL FOR LARGER EVENTS. A WEAK DELTA MAGNETIC CONFIGURATION CONTINUES HERE. MINOR GROWTH IS REPORTED WITHIN THE SMALL DELTA CONFIGURATION IN REGION 2809 (N22W38). THE HIGHLY CONVOLUTED NEUTRAL LINE IN THIS REGION AND THE ENHANCED LARGE-SCALE SHEAR NEAR THIS LOCATION PROMISE ADDITIONAL GROWTH. ACTIVITY HAS INCREASED SLIGHTLY IN REGION 2824 (S13E42) WHICH IS MARKED BY A SINGLE SPOT REMAINING FROM A VERY ACTIVE COMPLEX ON THE PREVIOUS DISK PASSAGE. LARGE-SCALE SHEAR IN THIS AREA MAY PRODUCE ADDITIONAL MINOR ACTIVITY THROUGHOUT THE DISK PASSAGE OF THIS REGION.

ADDITIONS TO 1200UT FCST: NONE.

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PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 DEC 192

PREDICTED 06-08 DEC 190/187/185

90 DAY MEAN 05 DEC 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 DEC 07/07

ESTIMATED AFR/AP 05 DEC 05/06

PREDICTED AFR/AP 06-08 DEC 07/10 07/10 14/13

SOLTERWARR

BT