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HFUS 3 BOU 061400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 341A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 06 DEC 1980

IA. SOLAR ACTIVITY CONTINUED VERY LOW WITH THE STRONGEST XRAY BURST IN THE PAST 24 HOURS LIMITED TO C2 LEVEL. REGION 2810 (S11W47) PRODUCED MOST OF THE FEW EVENTS, AND HAS APPEARED INCREASINGLY CAPABLE OF LARGER EVENTS AS MINOR SPOT GROWTH AND ACTIVE FILAMENTS HAVE BEEN REPORTED TODAY. THE DISTANCE BETWEEN THIS REGION AND REGION 2816 (S11W36) CONTINUES TO DIMINISH. THE DELTA CONFIGURATION CONTINUES IN 2810, BUT THE OVERALL STRUCTURE OF BOTH THESE REGIONS IS SIMPLE AND THE RATES OF EVOLUTION ARE RELATIVELY SLOW. ALL OTHER REGIONS ON THE DISK ARE EITHER STABLE OR DECAYING SLOWLY. THERE IS NO SIGN OF IMPENDING ACTIVITY NEAR THE EAST LIMB. REGION 2808 (N12W83) WILL COMPLETE DISK PASSAGE TODAY.

IB. SOLAR ACTIVITY WILL CONTINUE LOW UNTIL MORE VIGOROUS GROWTH OCCURS OR AN IMPORTANT ACTIVE REGION APPEARS AT EAST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN EXCEPTIONALLY QUIET FOR THE PAST 43 HOURS. QUIET CONDITIONS ARE EXPECTED TO CONTINUE FOR ANOTHER DAY WITH ACTIVE CONDITIONS COMMENCING ON 08 DEC AS ENHANCED SOLAR WIND FROM A DEVELOPING CORONAL HOLE ENCOUNTERS THE EARTH. ACTIVITY IS EXPECTED TO PEAK NEAR MINOR STORM LEVELS ON 09 DECEMBER.

III. EVENT PROBABILITIES: 07-09 DECEMBER

CLASS M 50/50/40

CLASS X 05/05/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 DEC 192

ESTIMATED 06 DEC 184

PREDICTED 07-09 DEC 172/174/170

90 DAY MEAN 05 DEC 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 DEC 08 AP 05 DEC 07

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

PREDICTED AFR/AP 07-09 DEC 07/10 14/13 18/20

SOLTERWARN

BT

HFUS 1 BOU 060200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 341B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200UT 06 DEC 1980

IA. SOLAR ACTIVITY CONTINUED VERY LOW WITH THE STRONGEST XRAY BURST IN THE PAST 24 HOURS LIMITED TO C2 LEVEL. REGION 2810 (S11W47) PRODUCED MOST OF THE FEW EVENTS, AND HAS APPEARED INCREASINGLY CAPABLE OF LARGER EVENTS AS MINOR SPOT GROWTH AND ACTIVE FILAMENTS HAVE BEEN REPORTED TODAY. THE DISTANCE BETWEEN THIS REGION AND REGION 2816 (S11W36) CONTINUES TO DIMINISH. THE DELTA CONFIGURATION CONTINUES IN 2810, BUT THE OVERALL STRUCTURE OF BOTH THESE REGIONS IS SIMPLE AND THE RATES OF EVOLUTION ARE RELATIVELY SLOW. ALL OTHER REGIONS ON THE DISK ARE EITHER STABLE OR DECAYING SLOWLY. THERE IS NO SIGN OF IMPENDING ACTIVITY NEAR THE EAST LIMB. REGION 2808 (N12W88) WILL COMPLETE DISK PASSAGE TODAY.

ADDITIONS TO 1200Z: AN M1 X-RAY EVENT WAS RECORDED WITH MAXIMUM AT 06/1439Z. ALTHOUGH NO OPTICAL REPORTS HAVE BEEN RECEIVED REGARDING THIS EVENT, IT IS MORE THAN LIKELY IT OCCURRED IN REGION 2810. ALSO, SAN FERNANDO OBSERVATORY NOW REPORTS SURGING AT THE EAST LIMB ALTHOUGH THE 10.7 CM EAST-WEST RADIO SCAN IS DEPRESSED IN THAT AREA.

IB. SOLAR ACTIVITY WILL CONTINUE LOW UNTIL MORE VIGOROUS GROWTH OCCURS OR AN IMPORTANT ACTIVE REGION APPEARS AT EAST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN EXCEPTIONALLY QUIET FOR THE PAST 48 HOURS. QUIET CONDITIONS ARE EXPECTED TO CONTINUE FOR ANOTHER DAY WITH ACTIVE CONDITIONS COMMENCING ON 08 DEC AS ENHANCED SOLAR WIND FROM A DEVELOPING CORONAL HOLE ENCOUNTERS THE EARTH. ACTIVITY IS EXPECTED TO PEAK NEAR MINOR STORM LEVELS ON 09 DECEMBER.

III. EVENT PROBABILITIES: 07-09 DECEMBER

CLASS M 50/50/40

CLASS X 05/05/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 DEC 176

PREDICTED 07-09 DEC 174/173/170

90 DAY MEAN 06 DEC 203

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 06 DEC 03/04

ESTIMATED AFR/AP 06 DEC 05/06

PREDICTED AFR/AP 07-09 DEC 07/10 14/13 18/20

SOLTERWARN

BT