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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 342A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 08 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 08/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS DUE TO REGION 3505 (S06E68) WHICH PRODUCED TWO M-CLASS EVENTS EARLY IN THE PERIOD, AN M1/SB AT 07/1336UT AND AN M1/SB AT 07/1453UT, ONLY MINOR RADIO WAS OBSERVED WITH THESE EVENTS. REGION 3503 (N10E42) HAS EXHIBITED RAPID GROWTH THIS PERIOD, AND IS NOW A D-TYPE GROUP. REGION 3492 (N18E05), REVERSE POLARITY GROUP, AND 3496 (N08E05) CONTINUE TO GROW IN BOTH SIZE AND MAGNETIC COMPLEXITY, REGION 3496 CONTAINS A DELTA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A MODERATE LEVEL DURING THE FORECAST PERIOD. REGION 3505 SHOULD PRODUCE SMALL MGACLASS ACTIVITY AS IT CONTINUES TO GROW. REGIONS 3492 AND 3496 MAY START TO INTERACT WITH EACH OTHER AND PRODUCE AN ISOLATED X-CLASS EVENT. OLD ACTIVE REGIONS 3461 (S04 L230) AND 3471 (N13 L202) ARE DUE TO RETURN HOWEVER LITTLE IS EXPECTED OF THEM AS THEY WERE RAPIDLY DECAYING AS THEY PASSED THE WEST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO ONLY SLIGHTLY UNSETLED, EXCEPT FOR THE PERIOD 0600-0900UT WHEN ACTIVE CONDITIONS WERE RECORDED. THE FIELD IS EXPECTED TO BE UNSETLED DURING THE FORECAST PERIOD EXCEPT FOR 10 DEC WHEN ACTIVE CONDITIONS ARE ANTICIPATED.

III. EVENT PROBABILITIES 09 DEC-11 DEC

CLASS M 95/95/95

CLASS X 10/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 DEC 288

ESTIMATED 08 DEC 295

PREDICTED 09 DEC-11 DEC 300/305/307

90 DAY MEAN 07 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 DEC 002 AP 07 DEC 006

ESTIMATED AFR 07 DEC 003 AFR/AP 08 DEC 005/010

PREDICTED AFR/AP 09 DEC-11 DEC 008/012-015/014-008/018

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HXUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 342B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 DEC 1991

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 08/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. THREE M1 X-RAY EVENTS, WITH X-RAY MAXIMA AT 1525Z, 1803Z, AND 1838Z, HAVE OCCURRED. NO OPTICAL CORRELATION WAS RECEIVED FOR THE FIRST EVENT. BOULDER, WITH A BRIEF OBSERVATION THROUGH CLOUDS, SAW AN ENHANCED MOUND AT SW09 (DEPARTED REGION 3477) AT THE TIME OF THE SECOND EVENT. THE THIRD EVENT CORRELATED WITH A 1N FLARE IN REGION 3502 (S13W73) AND AN ERUPTIVE PROMINENCE WITH REGION 3477. OPTICAL FLARES AND LESSER X-RAY BURSTS WERE REPORTED FOR NINE OF THE OTHER DISK REGIONS. REGION 3492 (N19W02) HAS HAD FLUCTUATING EMISSION IN THE CENTER OF THE STRUCTURE TODAY. REGION 3496 (N09W02) HAS HAD A SLIGHT DECAY WHEREAS REGION 3504 (S15E47) HAS HAD A SLIGHT GROWTH.

IP. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. ACTIVITY IS EXPECTED FROM SEVERAL REGIONS, AS THERE IS NO REGION DOMINATING IN FLARE PRODUCTION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. THE INTERPLANETARY FIELD AT ISEE-3 BEGAN TO GO NEGATIVE WITH A SLOW BUT STRONG RISE IN DENSITY AT 1400Z. GROUND SENSORS BEGAN TO RESPOND TO ACTIVE CONDITIONS AT 1440Z. THE FIELD IS EXPECTED TO BE UNSETLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 09 DEC-11 DEC

CLASS M 95/95/95

CLASS X 10/10/10

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 DEC 297

PREDICTED 09 DEC-11 DEC 305/307/307

90 DAY MEAN 08 DEC 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 DEC 002/006

ESTIMATED AFR/AP 08 DEC 014/012

PREDICTED AFR/AP 09 DEC-11 DEC 010/012-014/014-012/018

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HXUS BOU 082200

PREDM 09509 09510 09511

PREDX 01009 01010 01011

PREDP 00509 01010 01011

PCAFT 00109

TENCM 30509 30710 30711

AFRED 01009 01410 01211

AFAPF 01209 01410 01811

BT