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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 336A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1330Z 02 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN LOW SINCE THE
M2/13 EVENT AT 1710Z FROM REGION 3484(N16W31). THIS REGION HAS
REACHED ITS PEAK DEVELOPMENT AS A SMALL CLASS E SPOT GROUP WITH
MINOR MAGNETIC ANOMALIES. DECAY CONTINUES IN REGION
3477(S11W13) WHERE ALSO THERE ARE MINOR MAGNETIC ANOMALIES.
ITS CLASS F SPOT GROUP HAS MANY SMALL SPOTS. THERE ARE NOW 13
SPOT GROUPS ON THE VISIBLE SOLAR HEMISPHERE NOW THAT THREE
ADDITIONAL ONES HAVE ROTATED INTO VIEW: REGION 3490 AT N02E70,
REGION 3491 AT S18E80 AND REGION 3492 AT N17E80. THE LAST
REGION IS THE ONLY ONE WITH SIGNIFICANT SPOTS AND BRIGHT PLAGE.
THIS IS THE RETURN OF A REGION WHICH PRODUCED MODERATE ACTIVITY
LAST MONTH.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN MODERATE WITH A SMALL CLASS M EVENT EACH DAY FROM ONE OR
MORE OF THE LARGER REGIONS ON THE SOLAR DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET EXCEPT FOR A MINOR SUBSTORM AT 10-12Z. CONDITIONS
ARE EXPECTED TO REMAIN QUIET FOR THE NEXT 24 HOURS WITH A
GRADUAL INCREASE IN ACTIVITY ON 4 AND 5 DECEMBER.

III. EVENT PROBABILITIES 03 DEC-05 DEC

CLASS M 80/70/70

CLASS X 10/10/05

PROTON 05/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 DEC 237

ESTIMATED 02 DEC 240

PREDICTED 03 DEC-05 DEC 240/238/233

90 DAY MEAN 01 DEC 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 NOV 001 AF 01 DEC 006

ESTIMATED AFR 01 DEC 006 AFR/AF 02 DEC 006/012

PREDICTED AFR/AF 03 DEC-05 DEC 009/015-011/015-015/018

SOLTERWARN

BT

NNNNZ

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 336B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 9 HOURS. ONLY 6 SMALL C-CLASS SUBFLARES HAVE BEEN REPORTED DURING THAT TIME, THE LARGEST OF WHICH WAS A C4/SN FROM REGION 3484 (N16W37) BEGINNING AT 2031Z. ADDITIONAL NEW REGIONS 3493 (S17E46) AND 3494 (S30E72) WERE NUMBERED SINCE THE 1200Z MESSAGE. THERE ARE CURRENTLY 16 SPOTTED REGIONS ON THE VISIBLE DISK, BUT NONE APPEAR TO HAVE MAJOR FLARE POTENTIAL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW WITH A CHANCE OF AN ISOLATED M-CLASS FLARE. REGION 3484 IS APPARENTLY DECLINING IN STRENGTH AND COMPLEXITY AND NONE OF THE MANY NEW REGIONS IN THE EASTERN PORTION OF THE VISIBLE SUN HAS DEMONSTRATED POTENTIAL FOR PRODUCING MODERATELY ENERGETIC FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED DURING THE PAST 9 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 03 DEC-05 DEC

CLASS M 80/70/70

CLASS X 10/10/05

PROTON 05/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 DEC 241

PREDICTED 03 DEC-05 DEC 240/238/233

90 DAY MEAN 02 DEC 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 DEC 007/006

ESTIMATED AFR/AP 02 DEC 007/012

PREDICTED AFR/AP 03 DEC-05 DEC 009/015-011/015-015/018

SOLTERWARN

BT

HXUS BOU 022200

PREDM 08003 07004 07005

PREDX 01003 01004 00505

PREDP 00503 00204 00205

PCAF 00103

TENCM 24003 23804 23305

AFRED 00903 01104 01505

AFAPF 01503 01504 01805

BT