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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 236A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 24 AUG 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

23/1200Z TO 24/1200Z:

SOLAR ACTIVITY HAS BEEN LOW SINCE 23/1200UT. ONLY SMALL C-CLASS X-RAY FLARES HAVE OCCURRED IN REGIONS 3266 (S14W81), 3279 (S17W37), 3284 (S11W04), 3288 (N20E38), AND 3295 (N15E60). REGION 3266 HAS CONTINUED ITS SLOW DECAY AND REGIONS 3279 AND 3284 HAVE STABILIZED. THESE THREE REGIONS HAVE LOST MOST OF THEIR ACTIVE POTENTIAL, BUT REMAIN ERUPTIVE. REGION 3288 HAS BECOME INCREASINGLY ERUPTIVE AND REGION 3295 HAS REVEALED ITS FULL EXTENT EXCEEDS 15 DEGREES WITH WELL DEVELOPED PENUMBRA AND A DELTA MAGNETIC CONFIGURATION.

IF. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE NEXT TWO DAYS. AN ISOLATED M-CLASS FLARE IS PROBABLE BEFORE THE END OF THE FORECAST PERIOD FROM REGION 3284 OR 3295.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM LEVELS FOR THE PAST 24 HOURS. THE LARGEST K-INDEX OBSERVED IN BOULDER WAS SIX FROM 2100-2400 UT. THE MAGNETIC FIELD HAS GRADUALLY SUBSIDED TO ACTIVE LEVELS. UNSETTLED CONDITIONS ARE EXPECTED TO PREDOMINATE FOR THE NEXT THREE DAYS WITH OCCASSIONAL ACTIVE PERIODS.

III. EVENT PROBABILITIES: 25 - 27 AUG

CLASS M 40/40/50

CLASS X 03/03/05

PROTON 01/03/03

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 23 AUG 249

ESTIMATED 24 AUG 242

PREDICTED 25-27 AUG 235/226/225

90 DAY MEAN 23 AUG 182

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 AUG 09 AP 23 AUG 48

ESTIMATED AFR 23 AUG 38 AFR/AP 24 AUG 20/25

PREDICTED AFR/AP 25-27 AUG 10/15 14/10 14/10

SOLTERWARN

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WFUS 3 R011 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 236B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2007 24 AUG 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 24/2100Z:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PERIOD. THE LARGEST EVENT
WAS A C3/1R FROM REGION 3288 (N21E31) AT 1848 UT. A WEAK TYPE II
SWEEP WAS ALSO OBSERVED WITH THE EVENT. NEW REGION 3298 (N14E78)
IS A LARGE C-TYPE GROUP, HOWEVER, LIMP PROXIMITY PREVENTS
DETAILED MAGNETIC ANALYSIS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. REGIONS 3295, 3284
MAY PRODUCE AN ISOLATED M-CLASS EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH THE PERIOD OF 1500-1800UT
AT MINOR STORM LEVELS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT
UNSETTLED LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 25 - 27 AUG

CLASS M 40/40/50

CLASS X 03/03/05

PROTON 01/03/03

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 24 AUG 248

PREDICTED 25 - 27 AUG 242/235/226

90 DAY MEAN 24 AUG 183

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 AUG 48/48

ESTIMATED AFR/AP 24 AUG 24/29

PREDICTED AFR/AP 25 - 27 AUG 10/15 14/10 14/10

SOLTERWARM

BT