

HEISS 1 BQU 251230

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 237A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY,
ISSUED 1300Z 25 AUGUST 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 25/1200Z:

SOLAR ACTIVITY HAS BEEN LOW SINCE 24/1200 UT. NUMEROUS
SUBFLARES OCCURRED, PRIMARILY IN REGIONS 3279 (S17W50), 3284
(S11W15), 3288 (N01E26), 3292 (S05E21), AND 3295 (N16E49).
THE LARGEST FLARE WAS A C7/1B IN REGION 3284 AT 25/0727 UT.
THE LARGER FLARES STARTING TO OCCUR IN THIS REGION: IN ADDITION
TO ITS ACTIVE NEUTRAL LINE, AFS, AND BRIGHT POINTS: INDICATE
A PROBABLE GROWTH PHASE AND INCREASED VITALITY. THE DELTA
MAGNETIC CONFIGURATION REPORTED IN REGION 3295 HAS NOT BEEN
CONFIRMED. HOWEVER, THIS REGION HAS BEEN THE MOST ERUPTIVE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR ANOTHER DAY.
THE CHARACTERISTICS OF REGIONS 3284 AND 3295 INDICATE AN
M-CLASS FLARE IS PROBABLE BEFORE THE END OF THE FORECAST
PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS.
RECURRENCE SUGGESTS THE FIELD WILL BE UNSETTLED FOR THE NEXT
TWO DAYS, BECOMING SLIGHTLY ACTIVE ON 28 AUG. HOWEVER, ACTIVE
PERIODS ARE LIKELY DURING NIGHT HOURS FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 26 - 28 AUG

CLASS M 40/50/50

CLASS X 03/05/10

PROTON 03/05/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 24 AUG 248

ESTIMATED 25 AUG 242

PREDICTED 26-28 AUG 235/226/221

90 DAY MEAN 24 AUG 183

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 AUG 48 AP 24 AUG 27

ESTIMATED AFR 24 AUG 24 AFR/AP 25 AUG 12/15

PREDICTED AFR/AP 26-28 AUG 14/15 14/15 15/20

SOLTERWARN

BT

HEUS 3 EOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 237P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 25 AUGUST 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. ONLY A FEW SMALL C CLASS EVENTS HAVE BEEN RECORDED. A BRIGHT SURGE WAS OBSERVED FROM 1948Z TO 2015Z AT S213 (OLD REGION 3266) WITH

EXTENT TO .27 RADII, NO X-RAY EVENT WAS RECORDED WITH THIS EVENT.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING MOST OF THE FORECAST PERIOD. REGIONS 3284 (S13W20) AND 3295 (N15E41) BOTH HAVE THE POTENTIAL FOR AN ISOLATED M-CLASS EVENT.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 26 AUGUST - 28 AUGUST

CLASS M 40/50/50

CLASS X 03/05/10

PROTON 03/05/10

BCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 25 AUGUST 249

PREDICTED 26-28 AUGUST 242/235/230

90-DAY MEAN 25 AUGUST 184

VI. GEOMAGNETIC A INDICES

OBSERVED ABR/AP 24 AUGUST 24/27

ESTIMATED ABR/AP 25 AUGUST 12/15

PREDICTED ABR/AP 26-28 AUGUST 14/15 - 14/15 - 15/20

SOLTERWARM

BT