

HEUS 1 BOU 151330
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.
SDE NUMBER 135A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 15 MAY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200UT TO 15/1200UT

SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS. HOWEVER, THE
OVERALL POTENTIAL FOR ENERGETIC ACTIVITY REMAINS HIGH. GROWTH
AND DEVELOPMENT IN REGIONS 3106 (N12E23) AND 3112 (N13E33) CON-
TINUES. THE LACK OF RECENT ACTIVITY FROM THESE REGIONS WHILE
APPARENTLY INCREASING IN STRESS WOULD SUGGEST THAT FLARE ACTIVITY
IS BECOMING MORE LIKELY. REGION 30 99 (N10W49) IS LFSS A THREAT
AS IT IS DECLINING AND SIMPLIFYING.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH. ACTIVITY FROM REGIONS
3106 AND 3112 SHOULD BE FORTHCOMING.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD IS AT MINOR TO MAJOR STORM LEVELS. DISTURBED
CONDITIONS ARE EXPECTED TO GRADUALLY SUBSIDE OVER THE NEXT
THREE DAYS.

III. EVENT PROBABILITIES: 16 MAY - 18 MAY

CLASS M	95/95/95
CLASS X	35/35/35
PROTON	10/15/20
PCAF	YELLOW

IV. OTTAWA 10.7 FLUX

OBSEVED	14 MAY	228
ESTIMATED	15 MAY	228
PREDICTED	16-18 MAY	230/231/233
90 DAY MEAN	14 MAY	214

V. GEOMAGNETIC A INDICES

OBSEVED AFR	13 MAY	10	AP	14 MAY	19
ESTIMATED AFR	14 MAY	12	AFR/AP	15 MAY	40/50
PREDICTED AFR/AP	16-18 MAY	25/25	20/30	20/30	

SOLTERWARN
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HEUS 3 BOU 152200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 135R

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 15 MAY 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
15/1200UT TO 15/2200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 10 HOURS. C-CLASS
SUNFLARES HAVE BEEN OBSERVED IN REGIONS 3106 (N 12E 16) AND 3102
(N 11W 35). REGION 3099 (N 15E 28) NO LONGER HAS A DELTA MAG-
NETIC CONFIGURATION. NEW REGION 3114 (S 26E 14), A C-TYPE GROUP,
EMERGED RAPIDLY TODAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH BASED PRINCIPAL-
LY ON FLARE POTENTIAL CONTAINED IN REGION 3106.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS FOR THE PAST 10
HOURS, DECLINING FROM STORM LEVELS EXPERIENCED EARLIER IN THE
DAY. A MINOR PROTON ENHANCEMENT AT SATELLITE ALTITUDES THAT
BEGAN NEAR 0300UT CROSSED EVENT THRESHOLDS OF 10 PARTICLES/CM²/SEC.
AT ENERGIES GREATER THAN 10 MEV AT APPROXIMATELY 0600UT. PROTON
LEVELS HAVE FLUCTUATED NEAR THRESHOLD VALUES SINCE THAT TIME
WITH THE MAXIMUM BEING 19 FLUX UNITS AT 10⁸10UT. THE PARTICLE
INFLUX IS EXPECTED TO DECLINE SLOWLY OVER THE NEXT 12 HOURS.
THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT ACTIVE LEVELS
THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 16 MAY - 18 MAY

CLASS M 95/95/95

CLASS X 35/35/35

PROTON 10/15/20

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 15 MAY 214

PREDICTED 16-18 MAY 210/205/200

90 DAY MEAN 15 MAY 215

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 MAY 16/19

ESTIMATED AFR/AP 15 MAY 35/50

PREDICTED AFR/AP 16-18 MAY 25/25 20/30 20/30

SOLTERWARN

PT