

HFUS 1 BQU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 268A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 25 SEPT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
24/1200Z TO 05/1200Z:

SOLAR ACTIVITY CONTINUES AT LOW LEVELS WITH THE RELATIVELY
LARGE NUMBER OF VISIBLE REGIONS DISPLAYING SIMPLE STRUCTURES
AND NO APPARENT CAPACITY FOR ACTIVITY. A NEW REGION AT N06
HAS APPEARED IN RECENT HOURS ALSO APPEARING SIMPLE. IT IS
IN THE CORRECT LOCATION TO BE OLD REGION 3313. OLD REGION
3310, A SIGNIFICANT SOURCE OF ACTIVITY LAST ROTATION, SHOULD
HAVE RETURNED. NO REPORTS OF ITS PRESENCE HAVE BEEN RECEIVED.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN LOW. POSSIBLE SOURCES FOR SIGNI-
FICANT ACTIVITY ARE NOT BEING OBSERVED. RETURNING REGIONS WITH
POTENTIAL HAVE NOT REAPPEARED.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED, POSSIBLY AFFECTED BY
A SMALL CORONAL HOLE LOW TO THE WEST OF CENTRAL MERIDIAN.
PRESUMING THIS SOURCE OF MAGNETIC ACTIVITY, THE GEOMAGNETIC
FIELD SHOULD SUBSIDE TO QUIET LEVELS SOON AND REMAIN AT QUIET
LEVELS DURING THE FORECAST INTERVAL.

III. EVENT PROBABILITIES: 26-28 SEPT

CLASS M 20/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 24 SEPT 181

ESTIMATED 25 SEPT 178

PREDICTED 26-28 SEPT 176/180/184

90 DAY MEAN 24 SEPT 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 SEPT 06 AP 24 SEPT 09

ESTIMATED AFR 24 SEPT 09 AFR/AP 25 SEPT 08/10

PREDICTED AFR/AP 26-28 SEPT 07/08 07/07 06/13

SOLTERWARN

BT

HEUS 3 B011 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 2688

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 25 SEP 81

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY
FROM 25/1200Z TO 25/2100Z:

SOLAR ACTIVITY HAS BEEN LOW. TWO SMALL SURFLARES WERE OBSERVED
IN REGION 3347 (S08W38) AT 1731Z AND 1759Z. THIS REGION
CONTINUES TO DECLINE IN SPOT AREA AND COMPLEXITY. SMALL REGION
3362 (N15E03) IS GROWING RAPIDLY BUT HAS NOT BEEN ACTIVE. THREE
NEW REGIONS ROTATED ONTO THE DISK, REGION 3365 (N08E63), 3366
(N04E66) AND 3367 (N09E77).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN
LOW DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO ACTIVE DURING THE PAST 10 HOURS. THIS ACTIVITY
MAY BE A RESULT OF A CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN
ON 21 SEPT. THE FIELD IS EXPECTED TO UNSETTLED TO QUIET DURING THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 26 SEP 28 SEP

CLASS M 20/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 SEP 181

PREDICTED 26 SEP 28 SEP 180/180/184

90 DAY MEAN 25 SEP 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 SEP 008/009

ESTIMATED AFR/AP 25 SEP 015/013

PREDICTED AFR/AP 26 SEP - 28 SEP 008/008 007/007 006/013

SOLTERWARN

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