

NNNNEND

HEUS 1 200 271300
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SD NUMBER 270A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 27 SEPT 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z
TO 27/1200Z:

SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 3369 (S15E71)
PRODUCED AN M1 AT 261318Z (MAX) BUT OTHERWISE ACTIVITY HAS BEEN
SMALL AND SPARSE. IT IS REPORTED THAT 3369 IS NOT YET FULLY ON
THE DISK AND MAY EVENTUALLY REVEAL MORE COMPLEXITY THAN IS NOW
APPARENT. REGION 3368 (N08E07) CONTINUES TO GROW BUT AT A LESS
RAPID PACE THAN ITS INITIAL GROWTH. AN H-TYPE SPOT IS NOW
VISIBLE NEAR S07E78. LITTLE ELSE ON THE DISK APPEARS DYNAMIC AT
THIS TIME.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH REGION
3369 BEING THE PRIME CANDIDATE FOR M LEVEL ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH BRIEF PERIODS OF MINOR
STORM CONDITIONS. THE FIELD IS EXPECTED TO BECOME UNSETTLED TO
ACTIVE DURING THE NEXT 24 HOURS AND GENERALLY UNSETTLED THE
FOLLOWING 24 HOURS.

III. EVENT PROBABILITIES 28-30 SEP

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 SEP 188

ESTIMATED 27 SEP 195

PREDICTED 28-30 SEPT 198/203/207

90-DAY MEAN 26 SEP 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 SEP 13 AP 26 SEP 30

ESTIMATED AFR 26 SEPT 24 AFR/AP 27 SEP 20/30

PREDICTED AFR/AP 28-30 SEP 15/12 - 12/10 - 10/08

SOLTERWARN

BT

HFUS 3 8011 272000

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 270B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 SEPTEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z
TO 27/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST
EVENT WAS A C4/SE FLARE FROM 3361 (S08W41). WITH THE ADDITION
OF 4 SMALL NEW REGIONS TODAY, THERE ARE 17 SPOTTED REGIONS
ON THE VISIBLE DISK. NONE OF THEM ARE MAGNETICALLY COMPLEX.
SURGING WAS REPORTED AT SOUTHEAST 15 AND 22, AND AT SOUTHWEST
23. NEW REGION 3371 (S06W47) DEVELOPED JUST WEST OF 3361. BOTH
HAVE GOOD ARCH FILAMENT SYSTEMS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO OCCASIONALLY MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
HAS BEEN QUIET TO SLIGHTLY UNSETTLED FOR THE PAST NINE HOURS.
UNSETTLED CONDITIONS ARE EXPECTED TO PREDOMINATE FOR THE NEXT
THREE DAYS WITH PERIODS POTENTIALLY AT ACTIVE LEVELS DURING
LOCAL NIGHTTIME HOURS ON 28 SEPTEMBER.

III. EVENT PROBABILITIES 28 SEPTEMBER - 30 SEPTEMBER

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 SEPTEMBER 194

PREDICTED 28-30 SEPTEMBER 198/203/207

90-DAY MEAN 27 SEPTEMBER 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 SEPTEMBER 27/30

ESTIMATED AFR/AP 27 SEPTEMBER 18/30

PREDICTED AFR/AP 28-30 SEPTEMBER 15/12 - 12/10 - 10/08

SOLTERWARN

BT