

HFUS 1 POU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 261A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 18 SEPTEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
17/1200Z TO 18/1200Z:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. HOWEVER,
REGION 3344 (N11E52), A LARGE F-TYPE GROUP, HAS PRODUCED
NUMEROUS SUBFLARES AND MINOR RADIO BURSTS. REGIONS 3329 (N19-
W23) AND 3332 (N15W27) CONTINUE TO INTERACT AND THE SITUA-
TION APPEARS THREATENING ALTHOUGH PRESENTLY STABLE. NONE
OF THE OTHER EIGHT SPOTTED REGIONS ON THE VISIBLE DISK ARE
SIGNIFICANT AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW ALTHOUGH CONTIN-
UED DEVELOPMENT IN 3344 AND INTERACTION BETWEEN 3329 AND 3332
HAS INCREASED THE POSSIBILITY OF SIGNIFICANT FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.
THE FIELD IS EXPECTED TO BECOME ACTIVE ON 19-20 SEPTEMBER
IN RESPONSE TO FLARE ACTIVITY AND IMPLIED CORONAL TRANSIENTS
OBSERVED ON 15 SEPTEMBER. GEOMAGNETIC CONDITIONS SHOULD THEN
DECLINE TO UNSETTLED LEVELS BY THE THIRD DAY.

III. EVENT PROBABILITIES: 19 SEPTEMBER - 21 SEPTEMBER

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 SEP 219

ESTIMATED 18 SEP 212

PREDICTED 19-21 SEP 210/210/210

90 DAY MEAN 17 SEP 207

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 SEP 06 AP 17 SEP 08

ESTIMATED AFR 17 SEP 04 AFR/AP 18 SEP 08/08

PREDICTED AFR/AP 19-21 SEP 20/20 15/18 09/12

SOLTERWARN

BT

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 261R

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 18 SEP 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
18/1200Z TO 18/2100Z:

SOLAR ACTIVITY HAS BEEN LOW. OCCASIONAL SUBFLARES FROM RANDOM
SOURCES ARE BEING OBSERVED. THE VISIBLE REGIONS ARE NOT CHANGING
MUCH AND THE LARGER REGIONS 3329 (N19W29), 3332 (N15W34), 3344
(N10E45) AND 3347 (S07E55) REMAIN THE FOCUS OF ATTENTION. TWO
SMALL 'C' CLASS GROUPS WERE NUMBERED TODAY 3349 (N20W16) AND
3350 (S15W00) WHILE A MYRIAD OF FLUX IS REPORTEDLY EMERGING
AND SOON DYING IN THE SOUTHEAST QUADRANT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD CONTINUE LOW. THE THREAT OF AN ISOLATED M
EVENT FROM THE LARGE REGIONS MENTIONED ABOVE REMAINS POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS QUIET UNTIL 18/1910Z WHEN A SUDDEN
COMMENCEMENT OF 35 GAMMAS WAS OBSERVED. THE FIELD SHOULD REFLECT
THE COMMENCEMENT THROUGH THE NEXT 24 TO 36 HOURS WITH ACTIVE
CONDITIONS BEING OBSERVED.

III. EVENT PROBABILITIES: 19 - 21 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 18 SEP 218

PREDICTED 19 - 21 SEP 210/210/210

90 DAY MEAN 18 SEP 208

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 SEP 03/08

ESTIMATED AFR/AP 18 SEP 08/10

PREDICTED AFR/AP 19 - 21 SEP 20/20 15/18 09/12

SOLTERWARN

BT