

HFUS 3 BOU 03 1400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 003A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 03 JAN 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200UT
TO 03/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. HOWEVER, A REGION NEAR S16E81 HAS
ROTATED ONTO THE DISK AND IS PRODUCING SURGE ACTIVITY AS WELL
AS FREQUENT FLARE FLUCTUATIONS. THIS MAY BE THE RETURN OF OLD
REGION 2827 WHICH WAS NOT VERY ACTIVE LAST TRANSIT AND LOST ITS
SPOTS BEFORE WEST LIMB PASSAGE. SURGING IS ALSO BEING OBSERVED
NEAR NW16 WHERE 2870 HAS ROTATED OVER.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE NEXT 24 TO 36 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. UNSETTLED
CONDITIONS SHOULD BECOME MORE PREVALENT DURING THE COMING 24
HOURS.

III. EVENT PROBABILITIES: 04 JAN - 06 JAN

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 JAN 188

ESTIMATED 03 JAN 182

PREDICTED 04-06 JAN 177/173/170

90 DAY MEAN 02 JAN 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 JAN 09 AP 02 JAN 08

ESTIMATED AFR/AP 03 JAN 09/08

PREDICTED AFR/AP 04-06 JAN 08/10 08/10 12/12

SOLTERWAR N

BT

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 0038

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 03 JAN 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200UT
TO 03/1200UT:

SOLAR ACTIVITY HAS BEEN LOW. HOWEVER, A REGION NEAR S16E81 HAS
ROTATED ONTO THE DISK AND IS PRODUCING SURGE ACTIVITY AS WELL
AS FREQUENT FLARE FLUCTUATIONS. THIS MAY BE THE RETURN OF OLD
REGION 2827 WHICH WAS NOT VERY ACTIVE LAST TRANSIT AND LOST ITS
SPOTS BEFORE WEST LIMB PASSAGE. SURGING IS ALSO BEING OBSERVED
NEAR NW16 WHERE 2870 HAS ROTATED OVER.

ADDITIONS TO 1200Z FORECAST: NEW REGION 2875 (S16E68) PRODUCED
ONE SUBFLARE AND IS PRESENTLY A MAGNETIC A-TYPE GROUP. TWO
REGIONS PRESENTLY DISPLAY ARCH-FILAMENT SYSTEMS AND HAVE ALSO
PRODUCED SUB-FLARES. THESE ARE REGION 2873 (N09W26) AND REGION
2871 (N22W44). ACTIVE FILAMENTS HAVE BEEN OBSERVED AT S20W55
AND AT NE35. A SPRAY (NW22) EXTENDING TO .2R OCCURRED AT 1930-
1949Z. ALL OTHER DISK AND LIMB FEATURES ARE REPORTED QUIET
AND STABLE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE NEXT 24-36 HOURS. THE
BEST SUBFLARE POTENTIAL WILL BE FROM REGIONS 2873 AND 2871.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. UNSETTLED
CONDITIONS SHOULD BECOME MORE PREVALENT DURING THE COMING 24
HOURS.

III. EVENT PROBABILITIES: 04 JAN - 06 JAN

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 03 JAN 179

PREDICTED 04-06 JAN 177/175/173

90 DAY MEAN 03 JAN 219

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 JAN 07/08

ESTIMATED AFR/AP 03 JAN 09/09

PREDICTED AFR/AP 04-06 JAN 08/10 08/10 12/12

SOLTERWARN

BT