

HFUS 1 BOU 151300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 319A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 15 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
14/1200Z TO 15/1200Z: SOLAR ACTIVITY HAS CONTINUED MODERATE.
REGIONS 3994(S13E56) AND 3995(S17W09) HAVE CONTRIBUTED C CLASS
SUBFLARE ACTIVITY DURING THE PERIOD. REGION 3987(S12W03)
FOLLOWED SUBFLARE ACTIVITY WITH AN M3/2B FLARE AT 15/0143Z.
THIS SINGLE MAJOR FLARE OF THE PERIOD WAS ACCOMPANIED BY 490
FLUX UNITS OF DISCRETE FREQUENCY RF EMISSION AT 10 CM AND BRIEF
TYPE IV SWEEP EMISSION, AS WELL AS SIGNIFICANT DISCRETE
EMISSION AT THE OTHER OBSERVED FREQUENCIES. REGION 3987 REMAINS
VERY COMPLEX WITH A COMPLEX NEUTRAL LINE AND STEEP GRADIENTS,
AND AN ACTIVE DARK FILAMENT HAS DEVELOPED IN RECENT HOURS.
REMAINING REGIONS APPEAR STABLE AND INCAPABLE OF SIGNIFICANT
ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE WITH A SMALL NUMBER OF M CLASS FLARES LIKELY
FROM REGION 3987. A MAJOR FLARE APPEARS TO BE A DISTINCT
POSSIBILITY WITHIN THE FORECAST PERIOD. THE REGION IS NOW IN A
VERY FAVORABLE POSITION FOR EFFECTS FROM A POSSIBLE PROTON
FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. THE EXPECTED RESPONSE TO THE EARLY FLARE
ACTIVITY FROM REGION 3987 HAS NOT OCCURRED AS YET. THE
GEOMAGNETIC FIELD IS EXPECTED TO RETURN TO ACTIVE LEVELS ON 15
NOV. A RESPONSE TO THE FLARE ACTIVITY IS STILL EXPECTED.

III. EVENT PROBABILITIES 16 NOV-18 NOV

CLASS M 90/90/80

CLASS X 30/20/20

PROTON 30/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 NOV 163

ESTIMATED 15 NOV 168

PREDICTED 16 NOV-18 NOV 168/169/171

90 DAY MEAN 14 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 NOV 016 AP 14 NOV 012

ESTIMATED AFR 14 NOV 012 AFR/AP 15 NOV 012/020

PREDICTED AFR/AP 16 NOV-18 NOV 025/025-018/020-012/020

SOLTERWARN

BT

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 319B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 15/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD WITH A M1/1B FLARE OCCURRING AT 1609Z IN REGION 3987 (S12W10). SMALL CLASS C FLARES OCCURRED IN REGIONS 3976 (N10W66), 3994 (S14E51) AND 3979 (N11W84). REGION 3987 CONTINUES AS THE MOST ACTIVE ON THE DISK. IT IS STILL A MAGNETIC CLASS BETA-GAMMA DELTA, BUT ITS MAGNETIC GRADIENT HAS DECREASED FROM YESTERDAY. REGION 3996 (N02W08), A SMALL A GROUP, WAS NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE THROUGH THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED WITH ACTIVE CONDITIONS OCCURRING AFTER 1500Z. ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 16 NOV-18 NOV

CLASS M 90/90/80

CLASS X 30/20/20

PROTON 30/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 NOV 161

PREDICTED 16 NOV-18 NOV 158/156/155

90 DAY MEAN 15 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 NOV 011/012

ESTIMATED AFR/AP 15 NOV 012/015

PREDICTED AFR/AP 16 NOV-18 NOV 025/025-018/020-015/020

SOLTERWARN

BT