

HFUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 318A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 14 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY HAS CONTINUED MODERATE. REGION 3987(S13E10) CONTINUES TO BE THE SOURCE OF ALL SIGNIFICANT ACTIVITY. AN M1/1B FLARE OCCURRED AT 13/1436Z AND AN M2/2B FLARE AT 14/0007Z IN THE REGION. WHILE THE REGION APPEARS TO HAVE STABILIZED IN WHITE LIGHT AND ITS PLAGE INTENSITY DECLINED, THE MAGNETIC STRUCTURE IS STILL VERY COMPLEX WITH SEVERAL DELTAS AND STEEP GRADIENTS ALONG A CONTORTED NEUTRAL LINE. MAJOR ACTIVITY IS LIKELY TO ACCOMPANY ANY SIGNIFICANT CHANGES IN THE REGION. REGION 3994(S13E71), A NEW REGION ON THE EAST LIMB ON 13 NOV, APPEARS TO BE A SIMPLE D CLASS GROUP. NEW REGION 3995(S17E04) HAS DEVELOPED SOUTHEAST OF REGION 3987 AND SO FAR IS A SIMPLE BIPOLE BUT HAS GROWN RAPIDLY IN RECENT HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH MOST ACTIVITY EXPECTED FROM REGION 3987. ISOLATED MAJOR FLARES APPEAR POSSIBLE AND SHOULD BECOME MORE LIKELY FOLLOWING THE PASSAGE OF THE REGION THROUGH THE MATURE PHASE OF REGION EVOLUTION DURING THE NEXT FEW HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS DECLINED FROM ACTIVE TO UNSETTLED CONDITIONS IN RECENT HOURS. ACTIVE CONDITIONS ARE EXPECTED TO RESUME LATE ON 14 NOV. AND CONTINUE THROUGH THE FORECAST PERIOD IN RESPONSE TO RECENT SOLAR ACTIVITY.

III. EVENT PROBABILITIES 15 NOV-17 NOV

CLASS M 90/90/80

CLASS X 30/30/20

PROTON 30/30/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 NOV 165

ESTIMATED 14 NOV 160

PREDICTED 15 NOV-17 NOV 160/162/165

90 DAY MEAN 13 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 NOV 014 AP 13 NOV 017

ESTIMATED AFR 13 NOV 016 AFR/AP 14 NOV 015/020

PREDICTED AFR/AP 15 NOV-17 NOV 025/025-025/025-018/025

SOLTERWARN

BT

HFUS 3 BOU 142200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 318B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 14 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. SMALL  
FLARES HAVE COME FROM SEVERAL REGIONS, HOWEVER REGION 3987  
(S12E03) HAD THE LARGEST FLARE (C2/SN AT 1942Z) AND REMAINS  
THE MOST ACTIVE REGION. THIS REGION HAS STABALIZED IN WHITE  
LIGHT BUT RETAINS ITS MAGNETIC COMPLEXITY AND REMAINS A  
BETA-GAMMA-DELTA GROUP. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
MODERATE WITH REGION 3987 PRODUCING THE SIGNIFICANT FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED THIS PERIOD. ACTIVE CONDITIONS ARE EXPECTED TO  
RETURN ON THE 15TH AND REMAIN THROUGH THE FORECAST PERIOD DUE  
TO RECENT FLARES AND DISAPPEARING FILAMENTS.

III. EVENT PROBABILITIES 15 NOV-17 NOV

CLASS M 90/90/80

CLASS X 30/30/20

PROTON 30/30/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 NOV 163

PREDICTED 15 NOV-17 NOV 160/162/165

90 DAY MEAN 14 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 NOV 016/017

ESTIMATED AFR/AP 14 NOV 015/015

PREDICTED AFR/AP 15 NOV-17 NOV 025/025-025/025-018/020

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