

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 014A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT WAS A C4/2N HYDROFLARE AT 1327Z ASSOCIATED WITH AN ERUPTIVE FILAMENT. THE FILAMENT (S16W22) WAS NOT NEAR A SPOT GROUP. NEW REGION 4063 (N06E35) DEVELOPED ON THE DISK AND HAS GROWN TO A SMALL D TYPE SPOT GROUP AND PRODUCED TWO SMALL SUBFLARES IN THE PAST 24 HOURS. TWO OTHER NEW REGIONS, 4264 (N09E65) AND 4265 (S12E71), ROTATED ONTO THE DISK WITH SMALL D TYPE SPOT GROUPS. ALL OTHER REGIONS ARE STABLE OR DECLINING.

IE. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH POSSIBLE INCREASING ACTIVITY BEGINNING 17 JAN WHEN PREVIOUSLY ACTIVE LONGITUDES RETURN TO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. MINOR STORM CONDITIONS ARE EXPECTED 16-17 JAN IN RESPONSE TO AN EQUATORIAL CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN ON 12 JAN AND POSSIBLY FROM THE HYDROFLARE AND ERUPTIVE FILAMENT ON 13 JAN.

III. EVENT PROBABILITIES 15 JAN-17 JAN

CLASS M 10/10/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JAN 140

ESTIMATED 14 JAN 138

PREDICTED 15 JAN-17 JAN 140/142/143

90 DAY MEAN 13 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 JAN 015 AP 13 JAN 009

ESTIMATED AFR 13 JAN 007 AFR/AP 14 JAN 008/009

PREDICTED AFR/AP 15 JAN-17 JAN 010/015-035/035-025/025

SOLTERWARN

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HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 014B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 14 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS  
PERIOD. ONLY TWO OPTICAL, NO X RAY, EVENTS HAVE BEEN OBSERVED  
BOTH WERE SF ONE FROM REGION 4064 (N09E59) AT 1642UT AND ONE  
FROM REGION 4065 (S13E65) AT 1856UT. A SMALL PLAGE, NO SPOTS  
VISIBLE, HAS BEEN OBSERVED AT SE14. THE REST OF THE DISK IS  
REPORTED TO BE LITTLE CHANGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW DURING THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN QUIET TO SLIGHTLY UNSETTLED THIS PERIOD. MINOR STORM  
CONDITIONS ARE EXPECTED THE LAST TWO DAYS OF THE FORECAST  
PERIOD IN RESPONSE TO AN EQUATORIAL CORONAL HOLE WHICH PASSED  
CENTRAL MERIDIAN ON 12 JAN AND THE EFFECTS OF A ERUPTIVE  
FILAMENT ON 13 JAN.

III. EVENT PROBABILITIES 15 JAN-17 JAN

CLASS M 10/10/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JAN 142

PREDICTED 15 JAN-17 JAN 144/148/148

90 DAY MEAN 14 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JAN 007/009

ESTIMATED AFR/AP 14 JAN 003/009

PREDICTED AFR/AP 15 JAN-17 JAN 010/015-035/035-025/025

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