

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 HYDERFLARE 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 4065 (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
RESONSE TO AN EQUATORIAL CORONAL HOLE WHICH PASSED CENTRAL
MERIDIAN ON 12 JAN AND POSSIBLY FROM THE HYDERFLARE 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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