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HFUS 1 BOU 081319
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 128A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 08 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
07/1200UT TO 07/1200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS, ALTHOUGH
C-CLASS SUBFLARE RATES HAVE INCREASED. REGION 3079 (N07W45)
PRODUCED MOST OF THE SUBFLARES OBSERVED AND HAS (IN THE PROCESS
OF FLARING) ONCE AGAIN SIMPLIFIED MAGNETICALLY. THE REGION HAS
APPARENTLY STOPPED GROWING. REGION 3080 (N17W39) STILL RETAINS
ITS MAGNETIC COMPLEXITY BUT HAS CLEARLY DECLINED IN WHITE LIGHT
PARTICULARLY IN ITS SATELLITE SPOT STRUCTURE. REGION 3099
(N09E44) WHILE ONLY PRODUCING ONE C-CLASS SUBFLARE DURING THE
PAST 3 DAYS, IS LARGE AND COMPLEX (IT CONTAINS A DELTA CONFIG-
URATION). THE REGION HAS AN AWKWARD CENTRAL SPOT CLUSTER WHICH
IS REPORTEDLY GROWING. REGION 3090 (S20E02), WHICH GREW RAPIDLY
YESTERDAY, HAS STABILIZED AND IS NOW LESS LIKELY TO PRODUCE
ENERGETIC FLARES.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE LOW TO OCCASIONALLY MODERATE. IT IS
EXPECTED THAT C-CLASS SUBFLARE ACTIVITY WILL DIMINISH AS WE
AWAIT LARGER FLARES. REGION 3079 AND 3090 SHOULD NOW BE DIS-
COUNTED AS MAJOR FLARE PRODUCERS. REGION 3080 COULD EASILY
PRODUCE ANOTHER LARGE M-CLASS OR SMALL X-CLASS FLARE AS IT
DISINTEGRATES. REGION 3099 IS NOW THE REGION TO BE WATCHED
PATIENTLY FOR LARGE FLARES. THE REGION MAY QUIETLY BUILD ITS
STRENGTH FOR SEVERAL DAYS BEFORE PRODUCING THE MAJOR FLARE
IT IS INCREASINGLY CAPABLE OF.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS.
A MINOR DISTURBANCE IS STILL EXPECTED ON 09 MAY AS A RESULT
OF FLARE ACTIVITY NEAR CENTRAL MERIDIAN SEVERAL DAYS AGO.

III. EVENT PROBABILITIES: 09-11 MAY 1981

CLASS M 45/55/65

CLASS X 15/15/20

PROTON 05/05/10

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 07 MAY 230

ESTIMATED 08 MAY 232

PREDICTED 09-11 MAY 232/234/227

90 DAY MEAN 07 MAY 212

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 MAY 06 AP 07 MAY 07

ESTIMATED AFR 07 MAY 07 AFR/AP 08 MAY 11/10

PREDICTED AFR/AP 09-11 MAY 16/25 13/25 11/20

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HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 1288

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 08 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200UT
TO 08/2200UT

SOLAR ACTIVITY HAS BEEN LOW DURING THE PERIOD. ONLY SMALL C-CLASS
EVENTS HAVE BEEN RECORDED, THE LARGEST WAS A C7/SB FROM REGION
3080 (N16W44) AT 08/1503UT. 2100 FLUX UNITS AT 245 MHZ WAS
REPORTED WITH THIS EVENT. TWO NEW REGIONS WERE NUMBERED TODAY,
REGION 3102 (N09E56), A D-TYPE GROUP AND 3103 (S08E68) AN H-TYPE
GROUP.

IB. SOLAR ACTIVITY FORECAST

SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH A CHANCE FOR AN ISOLATED
M-CLASS EVENT FROM REGIONS 3099 (N13E30), 3079 (N06W49) OR 3080.

II. GEOPHYSICAL SUMMARY AND FORECAST

THE GEOMAGNETIC FIELD HAS BEEN AT QUIET LEVELS DURING THE PAST 24
HOURS. THE FIELD IS EXPECTED TO BE AT OR NEAR ACTIVE LEVELS DURING
THE NEXT 24-36 HOURS AND THEN UNSETTLED DURING THE REST OF THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 09-11 MAY

CLASS M 45/55/65

CLASS X 15/15/20

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 MAY 222

PREDICTED 09-11 MAY 221/223/227

90-DAY MEAN 08 MAY 213

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 MAY 05/07

ESTIMATED AFR/AP 08 MAY 07/10

PREDICTED AFR/AP 09-11 MAY 16/25 - 13/25 - 11/20

SOLTERWARN

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