

HFUS 1 BOU 091300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 099A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 09 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200Z TO 09/1200Z: SOLAR ACTIVITY REMAINS LOW. REGION 3671
(N06W31) PRODUCED A C9/SB FLARE AT 090157Z (MAX) WHICH WAS THE
MOST SIGNIFICANT EVENT OF THE PAST 3 DAYS. FEW OF THE VISIBLE
DISK REGIONS HAVE SHOWN ANY CHANGE. REGION 3684 (S27E59) IS
GROWING SLOWLY AND IS FLUCTUATING IN BRIGHTNESS AS IS REGION
3681 (S08E52). A NEW PLAGE IS ROTATING ONTO THE DISK NEAR SE10
AND SURGING IS OCCASIONALLY BEING OBSERVED IN THAT AREA.
OTHERWISE THE DISK IS GENERALLY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW
PENDING THE APPEARANCE OR DEVELOPMENT OF MORE COMPLEX REGIONS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET. A LARGE SOUTHERN HEMISPHERE CORONAL HOLE IS
ROTATING INTO A FAVORABLE POSITION FOR AFFECTING THE NEAR EARTH
ENVIRONMENT AND THIS MAY BE REFLECTED BY HIGHLY UNSETTLED TO
ACTIVE GEOMAGNETIC CONDITIONS FOR THE NEXT DAY OR TWO.

III. EVENT PROBABILITIES 10 APR-12 APR

CLASS M 10/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 APR 165
ESTIMATED 09 APR 168
PREDICTED 10 APR-12 APR 171/176/178
90 DAY MEAN 08 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 APR 006 2 AP 08 APR 012
ESTIMATED AFR 08 APR 009 1 AFR/AP 09 APR 009/012
PREDICTED AFR/AP 10 APR-12 APR 012/008-014/008-010/010
SOLTERWARN

BT

HXUS BOU 091300
PREDM 01010 01011 01012
PREDX 00110 00111 00112
PREDP 00110 00111 00112
PCAFT 00110
TENCM 17110 17611 17812
AFRED 01210 01411 01012
AFAPF 00810 00811 01012
KKK 22233 32223 33332

BT

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 099B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. REGION 3684 (S27E53), WHICH HAS NEARLY DOUBLED IN SIZE SINCE YESTERDAY, PRODUCED A C4/SN FLARE MAXING AT 1406Z. REGION 3671 (N06W37), THE SITE OF A C9/SB EARLIER TODAY, HAS GROWN TO A D-TYPE GROUP OF 16 SPOTS COMPARED TO A C-TYPE GROUP OF 8 SPOTS YESTERDAY. REGION 3681 (S08E36) HAS DEVELOPED ADDITIONAL SPOTS IN THE FAR WESTERN PORTION OF ITS LEADER POLARITY PLAGE. ALTHOUGH THE SPOT GROUP EXTENDS 10 DEGREES IN LONGITUDE, IT REMAINS UNIPOLAR. ALL OTHER REGIONS HAVE REMAINED STABLE. NEW REGIONS ARE 3686 (N17E70), AN H-TYPE SPOT WHICH IS THE RETURN OF OLD REGION 3649, 3687 (S09E76), A C-TYPE GROUP WHICH IS THE RETURN OF OLD REGION 3648, AND 3688 (N16E34), A B-TYPE GROUP WITH AN ARCH FILAMENT SYSTEM DEVELOPING TO THE NORTH OF H-SPOT REGION 3679 (N12E34).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THROUGHOUT THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 9 HOURS. GEOMAGNETIC CONDITIONS ARE EXPECTED TO BECOME UNSETTLED TO OCCASIONALLY ACTIVE FOR THE NEXT FEW DAYS IN RESPONSE TO A LARGE SOUTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 10 APR-12 APR

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APR 170

PREDICTED 10 APR-12 APR 171/176/178

90 DAY MEAN 09 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 APR 010/012

ESTIMATED AFR/AP 09 APR 009/012

PREDICTED AFR/AP 10 APR-12 APR 012/008-014/008-010/010

SOLTERWARN

BT

HXUS BOU 092200

PREDM 01010 01011 01012

PREDX 00110 00111 00112

PREDP 00110 00111 00112

PCAF 00110

TENCM 17110 17611 17812

AFRED 01210 01411 01012

AFAPF 00810 00811 01012

BT