

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 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  
PCAF 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

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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