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HFUS 1 BOU 090600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 099A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 09 APRIL 1974

IA. DURING THE PAST 8 HOURS REGION 375 (S13E31) HAS PRODUCED 3 NON-
ENERGETIC SUBFLARES. THIS IS THE ONLY ACTIVITY THAT HAS BEEN OBSERVED.
THE OTHER REGIONS ARE STABLE AND QUIET.

IB. SOLAR ACTIVITY WILL CONTINUE AT A VERY LOW LEVEL. A FEW NON-
ENERGETIC SUBFLARES WILL BE OBSERVED.

II. THE GEOMAGNETIC FIELD IS QUIET AND WILL BE ONLY SLIGHTLY DIS-
TURBED DURING THE NEXT 8 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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HFUS 1 BOU 091400
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 099B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 09 APRIL 1974
IA. FLARE ACTIVITY HAS BEEN LOW DURING THE PAST 8 HOURS. MOST
OF THE FLARES ARE OCCURRING IN REGION 375 (S13E24) WHERE AN
OCCLUDED REGION OF LEADER POLARITY IS LOCATED JUST SOUTHEAST OF
THE MAIN TRAILER SPOTS. BRIGHT SURGING HAS BEEN ASSOCIATED WITH
A NUMBER OF THE FLARES, AND AN ARCH FILAMENT IS OBSERVED IN THE
REGION OF MAXIMUM COMPLEXITY. ACTIVE REGION 379 (S17E43) APPEARS
(IN YESTERDAY'S KITT PK MAGNETOGRAM) AS A PAIR OF BIPOLES IN
JUXTAPOSITION. DYNAMIC GROWTH CONTINUES IN THIS AREA, WITH ARCH
FILAMENTS REPORTED.
IB. FLARE ACTIVITY MAY WELL INCREASE IF GROWTH IN REGIONS 375
AND 379 CONTINUE AT THE CURRENT PACE. ONE OR TWO CLASS M FLARES
ARE EXPECTED FROM 375.
II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST
12 HOURS, AND IS EXPECTED TO REMAIN UNSETTLED DURING THE FORECAST
PERIOD. PROTON FLUXES NEAR EARTH ARE AT BACKGROUND.
III. EVENT PROBABILITIES 10-12 APRIL
CLASS M 10/15/15
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 08 APRIL 81
PREDICTED 09-11 APRIL 83/85/85
90-DAY MEAN 08 APRIL 81
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 07 APRIL 13
ESTIMATED AFR/AP 08 APRIL 12/13
PREDICTED AFR/AP 09-11 APRIL 12/13 - 12/13 - 10/11
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HFUS BOU 092220

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 099

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 9 APRIL 1974

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ACTIVE REGION 375 (S13E20) HAS PRODUCED SUBFLARES AT A RATE OF ABOUT ONE EVERY THREE HOURS. NONE HAVE YET HAD MEASURABLE X-RAY OR CENTIMETRIC RADIO CORRELATIONS. THE GROWTH OF THE REGION IS IMPRESSIVE - X-RAY FLUXES FROM THE REGION TRIPLED OVERNIGHT, AND (RESOLVED) CENTIMETRIC RADIO FLUX IS CORRESPONDINGLY ENHANCED. IN H-ALPHA, THERE ARE ARCH FILAMENTS, DISK SURGING, AND PLAGE FLUCTUATIONS IN TWO PORTIONS OF THE REGION. ONE IS NORTHEAST OF THE LEADER SPOTS, WHILE THE OTHER DYNAMIC PORTION IS SOUTHEAST OF THE TRAILER SPOTS. THE SUNSPOT CLASSIFICATION IS A D, AND THE MAGNETIC CONFIGURATION IS INFERRED AS BETA/GAMMA. THE OS07 LONG X-RAY MAP TODAY SUGGESTS THAT CORONAL ARCHES CURRENTLY CONNECT THIS REGION AND REGION 379 (S17E39). DEVELOPMENT IN THE LATTER REGION APPEARS TO HAVE SLOWED. ELSEWHERE, AN ERUPTIVE PROMINENCE (BEGINNING BEFORE 1537 U.T.) AT N15E90 APPEARS A FORERUNNER OF A RETURNING ACTIVE REGION (OLD 371).
IB. SOLAR FLARE ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. EVENT FREQUENCY MAY INCREASE, AND ENERGETIC EVENTS MAY BEGIN.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. A FORBUSH DECREASE (8 PER CENT) WAS RECORDED BY THE THULE NEUTRON MONITOR BEGINNING AT ABOUT 1215 U.T. ON 8 APRIL. RIOMETERS AND RADARS IN ALASKA SHOW OCCASIONAL DISTURBANCES, BUT PROTON FLUXES AT SATELLITE HEIGHT REMAIN NEAR BACKGROUND. SOLAR WIND VELOCITIES ARE AT TWICE QUIET VALUES. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10-12 APRIL

CLASS M 25/30/30

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APRIL 88

PREDICTED 10-12 APRIL 90/92/92

90-DAY MEAN 09 APRIL 81

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 APRIL 12

ESTIMATED AFR/AP 09 APRIL 12/13

PREDICTED AFR/AP 10-12 APRIL 12/13-12/13-12/13

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