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HFUS 1 BOU 060600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 157A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 06 JUNE 1974

IA. NO SOLAR EVENTS HAVE BEEN DETECTED SINCE A MINOR X-RAY EVENT
AT 05/1953Z OBSERVED BY GOES SATELLITE. WEATHER AND MAINTENANCE
PROBLEMS HAVE LIMITED OPTICAL OBSERVATIONS. MINOR SUNSPOT GROWTH
CONTINUES IN REGION 420(N06E37) BUT WITH SIMPLE STRUCTURE. GROWTH
OF REGION 423(S11E04) MAY BE CAUSING MERGER WITH REGION 416
IMMEDIATELY WEST. A GRADUAL RISE IN 1-8A X-RAY BACKGROUND HAS
OCCURRED SINCE 0230Z.

IB. SOLAR ACTIVITY MAY INCREASE TO OCCASIONAL CLASS-C FLARES AS
REGIONS 416/423 INTERACT. DATA IS TOO SPARSE FOR CAREFUL EVALUATION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND SHOULD REMAIN SO
THROUGH THIS FORECAST PERIOD.

III. EVENT PROBABILITIES - NO CHANGE

IV. OTTAWA 10.7 CM FLUX - NO CHANGE

V. GEOMAGNETIC A INDICES - NO CHANGE

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HFUS BOU 061400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 157B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 06 JUNE 1974

IA. SOLAR FLARE ACTIVITY HAS BEEN VERY LOW, WITH NO FLARES
REPORTED DURING THE PAST 12 HOURS. ACTIVE REGION 420 (N06E33)
HAS ELONGATED SUBSTANTIALLY IN WHITE LIGHT, AND EXHIBITS PLAGE
FLUCTUATIONS. TO THE SOUTH OF AR 422 (S14E18), NEW SPOTS ARE REPORTED,
AND A LARGE FILAMENT DISAPPEARED. FILAMENT ACTIVITY IN ASSOCIATION
WITH AR 417(S13W47) IS APPARENT, BUT THE REGION ITSELF APPEARS DE-
CAYING.

IB. CLASS C FLARE ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD IS QUIET, AND IS EXPECTED TO REMAIN SO.
PROTON FLUXES AT SATELLITE HEIGHTS ARE AT BACKGROUND, ALTHOUGH
SOME FLUCTUATIONS IN LOW ENERGY PROTONS HAVE BEEN REPORTED FROM
MORNING AND EVENING SECTORS.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 157

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 06 JUNE 1974

IA. SOLAR ACTIVITY HAS BEEN LOW. HOWEVER, A SB/1B FLARE, WITH PRELIMINARY X-RAY CLASS M1 FROM THE NEW GOES SATELLITE, OCCURRED

NEAR N10W50 WITH FLARE MAXIMUM AT 1543Z. IMPORTANCE TWO SID EFFECTS ACCOMPANIED THIS EVENT. A CENTIMETRIC BURST OF 61 F.U.

ABOVE BACKGROUND WAS RECORDED AT BOULDER AT 2695 MHZ. TYPE III AND II DEKAMETRIC BURSTS OCCURRED; THE TYPE III BEGAN AT 1544Z AND THE TYPE II AT 1603Z WITH ESTIMATED VELOCITY OF 440 KM/SEC. THE FLARE APPEARS TO BE ASSOCIATED WITH THE OLD FIELDS OF REGION 417 (S13W54) AND NEW REGION 424 (S08W56).

IB. THE SUN IS MARKED BY SMALL ISLANDS OF MAGNETIC POLARITIES EMBEDDED WITHIN THE LARGE POLARITY FIELDS OF THE REGIONS, AS SHOWN BY KITT PEAK AND MT. WILSON MAGNETOGRAMS. HOWEVER, THE SUNSPOT GROUPS THEMSELVES ARE SIMPLE. ISOLATED CLASS M EVENTS ARE POSSIBLE THROUGH THE FORECAST PERIOD.

A LOW ENERGY PARTICLE ENHANCEMENT IS POSSIBLE ON 09 JUNE DUE TO TODAY'S EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED. IT IS EXPECTED TO REMAIN GENERALLY UNSETTLED, PRIMARILY DURING LOCAL NIGHT TIMES. AN EQUATORIAL CROSSING SOLAR SECTOR BOUNDARY IS AT W45.

III. EVENT PROBABILITIES 07 - 09 JUNE

CLASS M 30/30/20

CLASS X 02/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JUNE 93

PREDICTED 07 - 09 JUNE 90/87/82

90-DAY MEAN 06 JUNE 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 JUNE 07

ESTIMATED AFR/AP 06 JUNE 07/09

PREDICTED AFR/AP 07 - 09 JUNE 10/11 - 10/13 - 05/07

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