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HFUS 1 BOU 090600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 160A

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

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 8 HOURS. NO
FLARES HAVE BEEN OBSERVED. NO ACTIVITY HAS BEEN OBSERVED ON THE
DISK OR ON THE LIMBS.

IB. SOLAR ACTIVITY WILL CONTINUE AT A VERY LOW LEVEL.

II. THE GEOMAGNETIC FIELD IS QUIET AND IS EXPECTED TO REMAIN QUIET
DURING THE NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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HXUS BOU 091400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 160B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 09 JUNE 1974

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW DURING THE PAST 8 HOURS,
AND NO FLARES HAVE BEEN REPORTED. A NEW REGION, DESIGNATED REGION
427, HAS EMERGED AT S05W46. REGION 427 CONTAINS ARCH FILAMENTS AND
A C-TYPE SPOT GROUP. OCCASIONAL SURGES HAVE BEEN OCCURRING NEAR
S10W90.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THROUGH THE FORECAST
PERIOD. SPORADIC FLARES MAY OCCUR IN THE VARIOUS REGIONS ON THE
DISK. REGION 427 SHOULD BE WATCHED FOR CONTINUED DEVELOPMENT AND
INTERACTION WITH REGION 416 (S14W48).

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET, AND QUIET CONDITIONS
ARE LIKELY FOR 24-36 HOURS, AFTER WHICH A RECURRENT DISTURBANCE IS
EXPECTED TO BEGIN GRADUALLY. SINCE ABOUT 09/0100Z, A MINOR, LOW-
ENERGY PARTICLE EVENT HAS BEEN OBSERVED BY SATELLITE. THULE RIO-
METERS AT 26 AND 30 MHZ RECORDED A MAXIMUM ABSORPTION OF 1.0 DB
AND 0.7 DB RESPECTIVELY AT ABOUT 09/0945Z, AND ABSORPTION VALUES
HAVE DECLINED SINCE THEN. THE PARTICLE FLUX AT 21-70 MEV ON THE
ATS-1 SATELLITE IS PRESENTLY AT THE BACKGROUND LEVEL. WHILE
THE CAUSE OF THIS MINOR PARTICLE ENHANCEMENT IS NOT KNOWN, THERE
IS SOME SPECULATION THAT IT MAY HAVE BEEN RELATED TO THE FILAMENT/
PROMINENCE ACTIVITY DESCRIBED IN SDF 159.

III. EVENT PROBABILITIES 09-11 JUNE

CLASS M 25/20/20

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JUNE 107

PREDICTED 09-11 JUNE 85/82/80

90-DAY MEAN 08 JUNE 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 JUNE 03

ESTIMATED AFR/AP 08 JUNE 06/07

PREDICTED AFR/AP 09-11 JUNE 05/06-11/12-25/33

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HFUS BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 160

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 JUN 1974

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 24 HOURS, AND NO ENERGETIC FLARES HAVE BEEN REPORTED. NEW REGION 427 (S08W50) CONTAINS WEAK ARCH FILAMENTS, A SMALL BIPOLAR SPOT GROUP, AND, SHARES ITS NEUTRAL LINE WITH REGION 416 (S14W57). REGION 416 IS DECAYING SLOWLY. REGION 426 (N06E59) CONTAINS AN OPEN D OR E-TYPE SPOT GROUP, A SIMPLE NEUTRAL LINE, AND PLAGE EXHIBITING A BRIGHT POINT NEAR THE LEADING SPOT. OTHER REGIONS HAVE SHOWN LITTLE SIGNIFICANT CHANGE. ONLY MINOR ACTIVITY HAS BEEN OBSERVED IN THE FILAMENT/PROMINENCE NEAR S13W90 THAT ERUPTED YESTERDAY (SEE SDF 159 FOR DETAILS).

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW DURING THE THREE-DAY K FORECAST PERIOD. REGIONS 416, 426 AND 427 PROBABLY WILL PRODUCE SPORADIC SUBFLARES DURING THE NEXT THREE DAYS, WHILE OTHER REGIONS WILL REMAIN GENERALLY QUIET.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED FOR PERHAPS 12 HOURS, AFTER WHICH UNSETTLED CONDITIONS ARE ANTICIPATED. A GENERALLY INCREASING LEVEL OF GEOMAGNETIC ACTIVITY IS LIKELY 24-48 HOURS FROM NOW, DUE TO A RECURRENT DISTURBANCE. ACTIVITY TO MINOR STORM CONDITIONS ARE EXPECTED BY 12 JUE, ESPECIALLY DURING LOCAL NIGHTTIME. SINCE ABOUT 09/0100Z, A MINOR, LOW-ENERGY PARTICLE EVENT HAS BEEN OBSERVED BY SATELLITE. THULE RIOMETERS RECORDED MAXIMUM ABSORPTIONS OF 1.0 AND 0.7 DB AT 26 AND 30 MHZ RESPECTIVELY AT ABOUT 09/0945Z, AND ABSORPTION VALUES DECLINED GRADUALLY AFTER THAT TIME.

PARTICLE ENHANCEMENTS ON THE ORDER OF 10 TO 50 TIMES BACKGROUND LEVELS FOR ENERGY RANGES BELOW ABOUT 5 MEV WERE OBSERVED BY SATELLITE NEAR 09/0945Z. ONLY SLIGHT ENHANCEMENTS OF PARTICLES ABOVE 5 MEV WERE OBSERVED. WHILE THE SOURCE OF THIS MINOR PARTICLE EVENT HAS NOT BEEN DETERMINED, IT IS TEMPTING TO SPECULATE THAT THE FILAMENT/PROMINENCE ACTIVITY DESCRIBED IN SDF 159 MAY HAVE CAUSED THE ENHANCEMENT.

III. EVENT PROBABILITIES 10-12 JUN

CLASS M 20/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JUNE 92

PREDICTED 10-12 JUN 87/83/80

90-DAY MEAN 09 JUNE 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 JUN 06

ESTIMATED AFR/AP 09 JUNE 04/05

PREDICTED AFR/AP 10-12 JUN 11/12 - 25/33 - 28/39

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