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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 170A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 19 JUNE 1974

IA. SOLAR ACTIVITY CONTINUES VERY LOW WITH NO FLARES REPORTED DURING
THE LAST 8 HOURS. BOTH REGIONS 426 (N05W76) AND 428 (S12E04) APPEAR
TO BE DECLINING, ALTHOUGH AN ACTIVE DARK FILAMENT IS STILL OBSERVED
THROUGH REGION 428.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW THROUGH THE
FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE LAST 24 HOURS.
ACTIVE CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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HFUS 1 BOU 191400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 170B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 19 JUNE 1974

IA. SOLAR ACTIVITY REMAINS VERY LOW WITH NO FLARES REPORTED IN
THE PAST 24 HOURS. REGION 428 (S12W00) RETAINS ITS MAGNETIC
COMPLEXITY AND ACTIVE FILAMENT WITH LITTLE CHANGE SINCE YESTERDAY.
ALL OTHER REGIONS ARE INSIGNIFICANT.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW, BUT REGION 428 SHOULD BE
WATCHED CLOSELY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THE PAST 24 HOURS AND
SHOULD BE UNSETTLED TO ACTIVE THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 19 JUNE - 21 JUNE

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JUNE 82

PREDICTED 19 JUNE - 21 JUNE 81/80/80

90-DAY MEAN 18 JUNE 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 JUNE 14

ESTIMATED AFR/AP 18 JUNE 08/09

PREDICTED AFR/AP 19 JUNE 21 JUNE 18/21 - 18/21 - 15/17

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 170

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 Z 19 JUN 1974

I.A. Solar activity continues very low with only one, non-energetic subflare reported during the last 24 hours. The 1-8 Angstrom X Ray level as measured by GOES began rising slowly shortly before 19/1800Z, reached a peak well below C1 event level near 1900Z, and declined slowly to near the previous background by 2000Z. During this period, segments of the plage east of the neutral line filament ESE of the leader spots of Region 428 (S12W05) showed nearly continuous fluctuations to near flare intensity with a ϕF flare observed at 1843Z.

I.B. The filament running through the region continues dark and active. The region has declined in white light, primarily in the trailing portion where the spots have nearly disappeared. The rest of the sun is spotless and uninteresting.

I.B. The filament activity in Region 428 suggests a small chance of an energetic event from that region.

EVENT PROBABILITIES	<u>20 JUN</u>	<u>- 22 JUN</u>	<u>OVER</u>
CLASS M	20 /	20 /	20
CLASS X	02 /	02 /	02
PROTON	01 /	01 /	01
PCAF	GREEN		

V. OTTAWA 10.7 CM FLUX

OBSERVED	<u>19 JUN</u>	<u>80</u>
PREDICTED	<u>20 JUN</u> - <u>22 JUN</u>	<u>80</u> / <u>81</u> / <u>82</u>
90-DAY MEAN	<u>19 JUN</u>	<u>88</u>

GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	<u>18 JUN</u>	<u>10</u>
ESTIMATED A _{FR} /A _P	<u>19 JUN</u>	<u>10</u> / <u>16</u>
PREDICTED A _{FR} /A _P	<u>20 JUN</u> - <u>22 JUN</u>	<u>18</u> / <u>21</u> - <u>15</u> / <u>17</u> - <u>12</u> / <u>13</u>

NOTE: A recent comparison between two years of Fredericksburg and Planetary Magnetic indices has shown that A_P appears higher than A_{FREDERICKSBURG}. Therefore, both indices will be included in future forecasts. Only extrapolated A_P values will be given since the computation and publication of the actual observed A_P values require approximately three months.

~~Region~~ No regions are due to return.

II. The geomagnetic field has been unsettled to active during the last 24 hours. Active conditions are expected during the first portion of the forecast period, gradually returning to unsettled conditions by the end of the period.