# Syowa Watec2 All-Sky Images 20240503-20240504 



## Syowa Watec2 All-Sky Images 20240503-20240504



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| 18:22:13 UT | SYO | 18:23:13 UT | SYO | 18:24:13 UT | SYO | 18:25:13 UT | SYO | 18:26:13 UT | SYO | 18:27:13 UT | SYO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{gathered} \text { N } \\ \text { 18:28:13 UT } \end{gathered}$ | SYO | $\begin{gathered} \text { N } \\ \text { 18:29:13 UT } \\ \mathrm{S} \end{gathered}$ | SYO | $\begin{gathered} \text { N } \\ \text { 18:30:13 UT } \\ \mathrm{S} \end{gathered}$ | SYO | $\begin{gathered} \text { •N } \\ \text { 18:31:13 UT } \\ \mathrm{S} \end{gathered}$ | SYO | $\begin{gathered} \text { 18:32:13 UT } \\ \mathrm{S} \end{gathered}$ |  | $\begin{gathered} \text { N } \\ \text { 18:33:13 UT } \\ \mathrm{S} \end{gathered}$ |  |
| W |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| 18:34:13 UT |  | 18:35:13 UT ${ }_{\text {U }}^{\text {N }}$ |  | 18:36:13 UT ${ }_{\text {U }}$ |  | $\begin{gathered} \text { •N } \\ \text { 18:37:13 UT } \\ \mathrm{S} \end{gathered}$ |  | $\begin{gathered} \text { •N } \\ \text { 18:38:13 UT } \\ \mathrm{S} \end{gathered}$ | SYO | 18:39:14 ${ }^{\text {U }}$ NT | $\begin{aligned} & \text { y99} \\ & \text { SYO } \\ & \text { SYO } \end{aligned}$ |
| w |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{array}{r} \text { N } \\ \text { 18:40:14 UT } \end{array}$ | SYO | ${ }^{\text {18:41:14 UT }}$ N | SYO | 18:42:14 UT ${ }_{\text {U }}$ |  | 18:43:14 ${ }_{\text {UT }}^{\text {U }}$ |  | 18:44:14 UT ${ }_{\text {U }}^{\text {N }}$ | SYO | 18:45:14 UT ${ }_{\text {U }}^{\text {N }}$ | SYO |
| w |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{array}{r} \text { N } \\ \text { 18:46:14 UT } \end{array}$ | SYO | 18:47:14 ${ }_{\text {UT }}^{\text {U }}$ | SYO | $18.48: 14{ }^{\text {U }}$ UT | SYO | 18:49:14 ${ }^{\text {U }}$ S | SYO | 18:50:14 ${ }_{\text {UT }}^{\text {U }}$ | SYO | 18:51:14 ${ }_{\text {UT }}^{\text {U }}$ | SYO |
| w |  | E W |  | EW ○ |  | E W |  | E W |  | E W | E |
| $\begin{array}{r} \text { N } \\ 18: 52: 14 \text { UT } \end{array}$ | $\begin{gathered} \substack{y_{1} 1 \\ a_{22}, y_{2}} \end{gathered}$ | 18:53:14 ${ }_{\text {U }}^{\text {U }}$ | $\mathrm{SYO}^{2024}$ | 18:54:14 ${ }_{\text {UT }}^{\text {U }}$ | $\begin{aligned} & \substack{y_{21} \\ \text { and }} \end{aligned}$ | 18:55:14 ${ }^{\text {U }}$ NT | $\begin{aligned} & \text { SYO } \\ & \text { SYO } \end{aligned}$ | 18:56:14 UT ${ }_{\text {U }}^{\text {N }}$ | SYO | 18:57:14 UT ${ }_{\text {U }}^{\text {N }}$ | SYO |
| W o |  | EW ○ |  | EW ○ |  | E W o |  | EW ○ |  | E W | E |

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| 18:58:14 UT | SYO | 18:59:14 UT | SYO | 19:00:14 UT | SYO | 19:01:14 UT | SYO | 19:02:14 UT | SYO | 19:03:14 UT | SYO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| w |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{gathered} \text { N } \\ \text { 19:04:14 UT } \\ \text { S } \end{gathered}$ | $\mathrm{SYO}_{\substack{y_{12} \\ 0.65 \\ \hline}}$ | 19:05:15 UT | SYO | $\begin{gathered} \text { •N } \\ \text { 19:06:15 UT } \\ \mathrm{S} \end{gathered}$ | $\begin{aligned} & \substack{v_{12}+1 \\ \mathrm{SyP}} \end{aligned}$ | $\begin{gathered} \text { 19:07:15 UT } \\ \text { UT } \end{gathered}$ | SY\% | $\begin{gathered} \text { N } \\ \text { 19:08:15 UT } \\ \mathrm{S} \end{gathered}$ | SYO | $\begin{gathered} \mathrm{N} \\ \text { 19:09:15 UT } \\ \mathrm{S} \end{gathered}$ | SY80 |
| w |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{gathered} \text { •N } \\ \text { 19:10:15 UT } \end{gathered}$ | $\begin{gathered} v_{18} \\ \substack{0888 \\ S Y O} \end{gathered}$ | $\begin{gathered} \cdot \mathrm{N} \\ 19: 11: 15 \mathrm{UT} \\ \mathrm{~S} \end{gathered}$ | $\begin{aligned} & y_{10}^{4080} \\ & \text { SY\& } \end{aligned}$ | 19:12:15 UT | $\begin{aligned} & \text { Nog vis } \\ & \text { SYO } \end{aligned}$ | $\begin{gathered} \text { 19:13:15 UT } \\ \mathrm{S} \end{gathered}$ |  | $\begin{gathered} \mathrm{N} \\ \text { 19:14:15 UT } \\ \mathrm{S} \end{gathered}$ | $\begin{aligned} & \text { SYO } \\ & \text { SYite } \end{aligned}$ | $\begin{array}{r} \cdot \mathrm{N} \\ 19: 15: 15 \mathrm{UT} \\ \mathrm{~S} \end{array}$ | $\begin{aligned} & \substack{1,0 \\ \text { nit }} \end{aligned}$ |
| w |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{array}{r} \text { N } \\ \text { 19:16:15 UT } \\ \text { S } \end{array}$ | $\begin{gathered} y_{10} \\ \mathrm{~m}_{2} \mathrm{~S}_{8} \end{gathered}$ | $\begin{array}{r} \cdot \mathrm{N} \\ 19: 17: 15 \mathrm{UT} \end{array}$ | SYO | $\begin{gathered} \cdot \mathrm{N} \\ \text { 19:18:15 UT } \end{gathered}$ |  | $\begin{gathered} \mathrm{N} \\ \text { 19:19:15 UT } \\ \mathrm{S} \end{gathered}$ |  | $\begin{gathered} \text { N } \\ \text { 19:20:15 UT } \\ \text { S } \end{gathered}$ | SYO | $\begin{gathered} \text { 19:21:15 } \mathrm{NT} \\ \mathrm{~S} \end{gathered}$ | $\begin{aligned} & \substack{y_{1}, 8 \\ a_{4}+3 \\ \text { SYO }} \end{aligned}$ |
| w |  | E W |  | E W |  | E W |  | E W |  | E W | E |
| $\begin{array}{r} \text { N } \\ \text { 19:22:15 UT } \\ \mathrm{S} \end{array}$ |  | $\begin{gathered} \mathrm{N} \\ \text { 19:23:15 UT } \\ \mathrm{S} \end{gathered}$ |  | $\begin{array}{r} \text { N } \\ \text { 19:24:15 UT } \\ \mathrm{S} \end{array}$ | SYO | $\begin{gathered} \text { •N } \\ \text { 19:25:15 UT } \\ \mathrm{S} \end{gathered}$ |  | $\begin{gathered} \text { N } \\ \text { 19:26:15 UT } \\ \mathrm{S} \end{gathered}$ | SYO | $\begin{gathered} \mathrm{N} \\ \text { 19:27:15 UT } \\ \mathrm{S} \end{gathered}$ |  |
| w |  | E W |  | EW - |  | E W |  | E W |  | E W | E |
| $\begin{array}{r} \text { N } \\ \text { 19:28:15 UT } \end{array}$ |  | 19:29:16 ${ }_{\text {UT }}^{\text {U }}$ | SYO | 19:30:16 ${ }_{\text {UT }}^{\text {N }}$ |  | $\begin{gathered} \mathrm{N} \\ 19: 31: 16 \mathrm{UT} \end{gathered}$ | $\begin{gathered} \text { yat } \\ \text { and } \\ \text { SY } \end{gathered}$ | 19:32:16 ${ }^{\text {UT }}$ |  | ${ }_{\text {19:33:16 }} \cdot \mathrm{N}$ | SYO |
| W o |  | EW ○ |  | EW - |  | EW - |  | EW . |  | EW - | E |

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline 21:22:19 UT \& \& 21:23:19 UT

E W \& \& 21:24:19 UT
EW
W \& SYO \& 21:25:19 UT

EW W \& \& 21:26:20 UT
EW W o. \& \& 21:27:20 UT
EW W 0. \& SYO <br>

\hline $$
\begin{gathered}
\text { N } \\
\text { 21:28:20 } \\
\text { UT } \\
\text { S }
\end{gathered}
$$ \&  \& \[

$$
\begin{array}{r}
\text { N } \\
\text { 21:29:20 UT } \\
\mathrm{S}
\end{array}
$$

\] \& SYO \& \[

$$
\begin{gathered}
\text { N } \\
\text { 21:30:20 UT } \\
\text { S }
\end{gathered}
$$

\] \& SYO \& \[

$$
\begin{gathered}
\mathrm{N} \\
21: 31: 20 \mathrm{UT}
\end{gathered}
$$

\] \& SYo \& \[

$$
\begin{gathered}
\text { N1:32:20 } \\
\mathrm{UT} \\
\mathrm{~S}
\end{gathered}
$$
\] \& \& 21:33:20 NT \&  <br>

\hline w \& \& EW \& \& EW \& \& EW \& \& EW \& \& EW o. \& <br>

\hline $$
\begin{aligned}
& \text { 21:34:20 UT } \\
& \hline \mathrm{S}
\end{aligned}
$$ \& \[

$$
\begin{aligned}
& \text { ynt } \\
& \text { SYO }
\end{aligned}
$$

\] \& \[

$$
\begin{array}{r}
\text { N } \\
\text { 21:35:20 UT } \\
\text { ST }
\end{array}
$$

\] \& SYo \& \[

$$
\begin{array}{r}
\text { N } \\
21: 36: 20 \text { UT }
\end{array}
$$
\] \& SYO \& 21:37:20 UT \& SYO \& 21:38:20 UT \& \& 21:39:20 UT \& S ${ }_{\text {a }}^{418}$ <br>

\hline \& \& \& \& EW \& \& EW \& \& EW \& \& EW \& <br>

\hline $$
\text { 21:40:20 } \begin{gathered}
\mathrm{NT} \\
\mathrm{~S}
\end{gathered}
$$ \& \[

$$
\begin{aligned}
& \text { ynd } \\
& \text { Syo } \\
& \text { SYO }
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& \text { N } \\
& \text { 21:41:20 UT } \\
& \text { ST }
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& \substack{y^{2}+6 \\
\mathrm{SyO}}
\end{aligned}
$$

\] \& \[

21: 42: 20 \mathrm{NT}_{\mathrm{S}}^{\mathrm{N}}
\] \& S\% \& ${ }^{\text {21:43:20 UT }}$ N \& SYO \& 21:44:20 UT \& \& 21:45:20 UT \&  <br>

\hline w \& \& \& \& \& \& EW \& \& EW \& \& EW \& <br>

\hline 21:46:20 UT \& $$
\begin{aligned}
& \substack{v, 18 \\
\text { and } \\
\text { SYO }}
\end{aligned}
$$ \& \[

$$
\begin{array}{r}
\text { N } \\
\text { 21:47:20 UT } \\
\text { ST }
\end{array}
$$
\] \& Side \& 21:48:20 UT \& SYO \& 21:49:20 UT \& SYO \& 21:50:20 UT \& \& 21:51:20 UT \& SYO <br>

\hline w \& \& EW \& \& EW \& \& EW \& \& EW \& \& EW \& <br>

\hline 21:52:20 UT \& $$
\begin{aligned}
& \text { atico } \\
& \text { SYO }
\end{aligned}
$$ \& \[

$$
\begin{gathered}
\mathrm{N} \\
21: 53: 20 \mathrm{UT}_{\mathrm{S}}
\end{gathered}
$$

\] \&  \& \[

$$
\begin{gathered}
\mathrm{N} \\
\text { 21:54:20 UT }
\end{gathered}
$$

\] \& SYO \& \[

$$
\begin{array}{r}
\mathrm{N} \\
21: 55: 21 \mathrm{UT}
\end{array}
$$

\] \& SYO \& \[

$$
\begin{gathered}
\mathrm{N} \\
\text { 21:56:21 } \\
\mathrm{UT}
\end{gathered}
$$
\] \& \& ${ }_{\text {21:57:21 }}^{\substack{\text { N } \\ \text { UT } \\ \text { S }}}$ \& cos <br>

\hline w o. \& \& EW \& \& EW \& \& EW \& \& E W \& \& EW \& <br>
\hline
\end{tabular}

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| 23:46:24 UT | SYO | 23:47:24 UT | SYO | 23:48:24 UT | SYO | 23:49:24 UT | SYO | 23:50:24 UT | SYO | 23:51:24 UT | SYO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| w |  | EW |  | EW |  | EW |  | EW |  | EW | E |
| - | v19 | - N | v10 | - N | ${ }^{\text {P18 }}$ | - N |  |  |  |  |  |
| 23:52:24 UT | SYO | 23:53:24 UT | SYO | 23:54:24 UT | SYO | 23:55:25 UT | SYO | 23:56:25 UT | SYO | 23:57:25 UT | SYO |
|  |  | EW |  | EW |  | EW |  | EW |  | EW | E |
| - | \% ${ }^{4}$ | - N |  | - N | \% $x^{2}$ | - N |  |  |  |  |  |
| 23:58:25 UT | SYO | 23:59:25 UT | SYO | 00:00:25 UT | SYO | 00:01:25 UT | SYO | 00:02:25 UT | SYO | 00:03:25 UT | SYO |
|  |  | EW |  | EW |  | EW |  | E W |  | EW | E |
| 00:04:25 ${ }^{\text {N }}$ NT | ${ }^{2}{ }^{2} 18$ |  | ${ }^{418}$ |  |  |  |  |  | 918 |  |  |
| 00:04:25 UT | SYO | 00:05:25 UT |  | 00:06:25 UT |  | 00:07:25 UT |  | 00:08:25 UT | SYO | 00:09:25 UT |  |
|  |  | EW |  | EW |  | EW |  | EW |  | EW | E |
| - |  |  |  |  |  |  |  |  |  |  |  |
| :10:25 UT |  | 00:11:25 UT |  | 00:12:25 UT |  | 00:13:25 UT |  | 00:14:25 UT |  | 00:15:25 UT | SYO |
|  |  | EW |  | EW |  | EW |  | EW |  | EW | E |
| 00:16:25 ${ }_{\text {UT }}^{\text {N }}$ |  | ${ }^{00: 17: 25 ~}{ }^{\text {UT }}$ | SYO | ${ }^{00: 18: 25 ~ U T}$ | SYO | 00:19:25 UT |  | $0_{00: 20: 26 ~ U T}^{\text {UT }}$ | SYO | ${ }^{00: 21: 26 ~ U T}$ | SYO |
| w o |  | EW |  | EW |  | EW |  | EW |  | EW | E |
|  |  | - N |  | $\cdots$ |  | $\cdots$ |  | - N | 2419 | - N | \%18 |

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