

YOKOHAMA to ISHIGAKI Forecast: (Arrival - 07/23 01:40z)

SunRise: 05:48 SunSet: 19:56 (ST)

Route Recommendation: Proceeding on RL to 27-30N/135-00E, then direct to Ishigaki.

Forecast Period	Wind Dir Bridge Level	Wind Spd (Knots)	Swell Dir	Swell Hght (Meters)	Per Vis (sec)(nm)	Sky Conditions / Advisory	Currents Dir From/Knots
19/18Z-21Z	SE-S	08-13	ESE-SSE	1.0-2.0	07 10	ISOLATED SHWRS/SQUALLS	SE @ 1kts Air Temp 81°/27°
19/21Z-00Z	SSE-ESE	10-15	ESE-SSE	1.0-2.0	07 9	ISOLATED SHWRS/SQUALLS	SE @ 1.9kts Air Temp 82°/28°
20/00Z-03Z	E-SE	12-17	ESE-SSE	1.5-2.5	07 9	NONE	SSE @ 0.5kts Air Temp 82°/28°
20/03Z-06Z	E-SE	15-20	ESE-SSE	1.5-2.5	07 11	ISOLATED SHWRS/SQUALLS	NNW @ 2.5kts Air Temp 83°/28°
20/06Z-09Z	ESE-SSE	16-21 BRF 25	ESE-SSE	2.0-3.0	06 9	ISOLATED SHWRS/SQUALLS	NW @ 2.3kts Air Temp 83°/28°
20/09Z-12Z	E-SE	17-22 BRF 27	ESE-SSE	2.0-3.0	06 9	ISOLATED SHWRS/SQUALLS	SW @ 0.6kts Air Temp 82°/28°
20/12Z-15Z	E-SE	20-25 BRF 30	ESE-SSE	2.0-3.0	07 9	NONE	SSE @ 1.5kts Air Temp 83°/28°
20/15Z-18Z	E-SE	23-28 BRF 33	SE-S	2.5-3.5	08 9	ISOLATED SHWRS/SQUALLS	ESE @ 0.3kts Air Temp 83°/28°
20/18Z-21Z	E-SE	23-28 BRF 33	SE-S	3.0-4.0	08 8	ISOLATED SHWRS/SQUALLS	N @ 0.4kts Air Temp 83°/28°
20/21Z-00Z	E-SE	25-30 BRF 35	SE-S	3.5-4.5	08 7	SCATTERED SHWRS/SQUALLS	S @ 0.7kts Air Temp 83°/28°
21/00Z-03Z	ESE-SSE	27-32 BRF 37	SE-S	3.5-4.5	08 7	ISOLATED SHWRS/SQUALLS	SSW @ 0.8kts Air Temp 83°/28°
21/03Z-06Z	ESE-SSE	28-33 BRF 38	SE-S	3.5-4.5	11 8	ISOLATED SHWRS/SQUALLS	WSW @ 0.9kts Air Temp 83°/28°
21/06Z-09Z	ESE-SSE	25-30 BRF 35	SE-S	3.5-4.5	10 8	ISOLATED SHWRS/SQUALLS	W @ 1.1kts Air Temp 83°/28°
21/09Z-12Z	ESE-SSE	22-27 BRF 32	SSE-ESE	3.5-4.5	10 6	SCATTERED SHWRS/SQUALLS	WNW @ 1.2kts Air Temp 83°/28°
21/12Z-15Z	ESE-SSE	20-25 BRF 30	ESE-SSE	3.0-4.0	08 6	SCATTERED SHWRS/SQUALLS	WNW @ 0.7kts Air Temp 83°/28°
21/15Z-18Z	ESE-SSE	18-23 BRF 27	ESE-SSE	2.5-3.5	08 8	SCATTERED SHWRS/SQUALLS	SE @ 0.7kts Air Temp 82°/28°
21/18Z-00Z	ESE-SSE	18-23 BRF 27	ESE-SSE	2.0-3.0	07 9	NONE	SW @ 0.5kts Air Temp 81°/27°
22/00Z-06Z	ESE-SSE	16-21	ESE-SSE	2.0-3.0	07 7	NONE	WSW @ 0.8kts Air Temp 82°/28°
22/06Z-12Z	ESE-SSE	12-17	SE-E	2.0-3.0	10 5	NONE TROPICAL STORM 12W (AMPIL)(NW @ 463nm)	N @ 0.8kts Air Temp 82°/28°
22/12Z-18Z	VEER SE-S-SW	14-19 BRF 25	SE-E	2.0-3.0	09 8	NONE	SW @ 1.5kts Air Temp 81°/27°
22/18Z-00Z	VEER SW-W-NW	12-17	SE-S	2.0-3.0	08 8	ISOLATED SHWRS/SQUALLS	SW @ 1.1kts Air Temp 82°/28°
23/00Z-Dest	WNW-NNW	08-13	S-SW	1.5-2.5	08 9	ISOLATED SHWRS/SQUALLS	SW @ 1.1kts Air Temp 82°/28°

Comments: *Wind/Seas HIGHER in SQUALLS

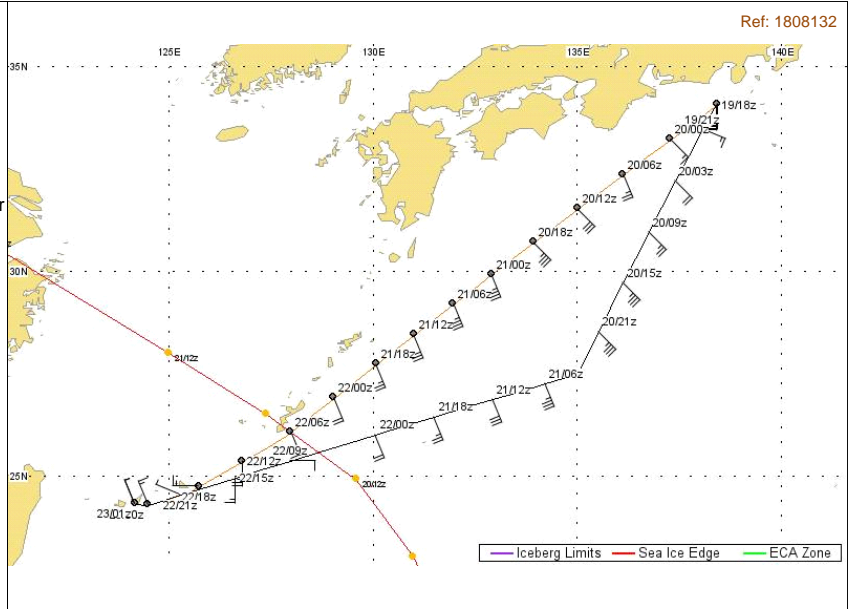
Synopsis: Good day. Please see below for the latest advisory regarding **TROPICAL STORM 12W (Ampil)**.

Route Reason: Forecasts below are given for two options: The first option is to maintain wider berth from **TROPICAL STORM 12W**, routing direct to waypoint of 27-30N/135-00E then direct to Ishigaki (top forecast, recommended by WRI). The second option given is for direct routing to Ishigaki (bottom forecast).

The WRI recommended route as mentioned above will help to minimize higher winds and seas associated with **TROPICAL STORM 12W (Ampil)** by keeping the vessel safely east of the system. If the vessel proceeds on a more direct route to Ishigaki (as shown in the bottom comparison forecast), more significant impacts will be expected, including winds of over 40kts and swell exceeding 5 meters at times on the 21st. In addition, increased shower/squall activity as a result of outer bands from **TROPICAL Storm 12W** will be expected on a direct route. Although WRI recommended route is approximately 90nm longer than a direct route, given sufficient time for scheduled ETA and only marginally higher speed needed for this ETA (about 13.5-14kts), we feel routing change is warranted.

Please advise you routing intentions. Many thanks.

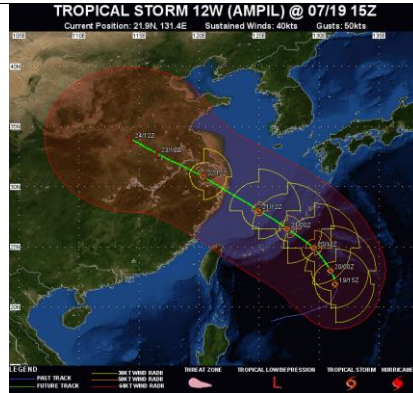
Next forecast will be sent near 20th/03z, and next advisory near 19th/21z (sooner if conditions warrant).



Route Type	ATD / ETA	Dist	Hrs	M/E Fuel	Spd Factor	Day3	Day5	Day7	All	Wind	Swell	ECA Hrs	Dist
Actual	07/19 08:00	Total	1164	89.7	0	Weather	-0.33	-0.06	-0.30	Peak	38	4.5	
<i>Black Line</i>	07/23 01:40	Remain	1164	89.7	0	Current	-0.27	-0.59	-0.31	Duration	0	15	0.1% SOx
Comparison	07/19 08:00	Total	1076	89.4	0	Weather	-0.61	-0.05	-0.54	Peak	43	5.5	
<i>Orange Line</i>	07/23 01:21	Remain	1076	89.4	0	Current	-0.23	-0.80	-0.29	Duration	9	24	0.1% SOx

At 19/15z, **TROPICAL STORM 12W (AMPIL)** was centered near 21.9N 131.4E (LOCATED APPROXIMATELY 362 NM SOUTHEAST OF KADENA AB), MOVING NNE'WARD AT 10KTS, with maximum winds 040-050kts. **GALE** Radius is 120nm W'r'n Semicircle, 180nm NE'r'n Quadrant, 210nm SE'r'n Quadrant. Latest satellite imagery continues to show 12W (Ampil) as a relatively strong **TROPICAL STORM**. Convection continues to flare around a clear and increasingly organized center of circulation. Conditions for further strengthening/organization are in place (warm water temperatures and moderately favorable upper-level winds), however NW'ward movement closer to land over the next 1-2 days is expected to limit the amount of time the **STORM** will have to gain strength. Therefore, the system is forecast to remain a **TROPICAL STORM** moving into the East China Sea though remaining a large system in diameter. WRI will continue to monitor and update accordingly.

Forecast Time (UTC)	Positions Lat / Lon	Max Winds (Knots)	Gale Radius (nm)				Dir/Dist to Trop (nm)
			NE	SE	SW	NW	
07/19 15z	21.9N 131.4E	40 Gust 50	170	185	100	110	N/A
07/20 00z	23.0N 131E	45 Gust 55	215	180	095	125	N/A
07/20 12z	24.9N 129.6E	50 Gust 65	215	175	065	150	N/A
07/21 00z	26.5N 127.4E	55 Gust 70	220	165	060	170	N/A
07/21 12z	28.0N 125E	55 Gust 70	200	135	080	140	N/A
07/22 12z	30.8N 120.4E	45 Gust 55	135	110	065	070	N/A
07/23 12z	32.7N 116.6E	30 Gust 40	000	000	000	000	N/A
07/24 12z	33.9N 114.4E	20 Gust 30	000	000	000	000	N/A



Closest Point of Approach (CPA):
NW 464nm
Time of CPA @ 22/06z

YOKOHAMA to ISHIGAKI Forecast: (Arrival - 07/23 01:21z)

SunRise: 05:48 SunSet: 19:56 (ST)

***Comparison* Route Recommendation: Forecast below is for proceeding on shortest direct route to Ishigaki.**

Forecast Period	Wind Dir Bridge Level	Wind Spd (Knots)	Swell Dir	Swell Hght (Meters)	Per Vis (sec)(nm)	Sky Conditions / Advisory	Currents Dir From/Knots
19/18Z-21Z	SE-S	08-13	ESE-SSE	1.0-2.0	07 8	ISOLATED SHWRS/SQUALLS	SSE @ 0.7kts Air Temp 81°/27°
19/21Z-00Z	SSE-ESE	10-15	ESE-SSE	1.0-2.0	07 8	ISOLATED SHWRS/SQUALLS	ESE @ 1.9kts Air Temp 82°/28°
20/00Z-03Z	E-SE	12-17	SSE-ESE	1.0-2.0	08 9	NONE	ESE @ 0.3kts Air Temp 83°/28°
20/03Z-06Z	E-SE	15-20	ESE-SSE	1.5-2.5	07 10	NONE	NW @ 2.7kts Air Temp 83°/28°
20/06Z-09Z	E-SE	16-21 BRF 25	ESE-SSE	2.0-3.0	07 10	NONE	W @ 1.5kts Air Temp 83°/28°
20/09Z-12Z	E-SE	17-22 BRF 27	ESE-SSE	2.0-3.0	07 10	ISOLATED SHWRS/SQUALLS	W @ 1.3kts Air Temp 83°/28°
20/12Z-15Z	E-SE	19-24 BRF 29	ESE-SSE	2.0-3.0	07 10	NONE	SW @ 0.8kts Air Temp 83°/28°

20/15Z-18Z	E-SE	20-25 BRF 30	ESE-SSE	2.5-3.5	07	10	ISOLATED SHWRS/SQUALLS	SSW @ 1kts Air Temp 83°/28°
20/18Z-21Z	E-SE	25-30 BRF 35	ESE-SSE	3.5-4.5	09	8	ISOLATED SHWRS/SQUALLS	SSE @ 1.3kts Air Temp 83°/28°
20/21Z-00Z	E-SE	28-33 BRF 38	ESE-SSE	4.0-5.0	09	8	SCATTERED SHWRS/SQUALLS	SSE @ 0.9kts Air Temp 83°/28°
21/00Z-03Z	E-SE	30-35 BRF 40	ESE-SSE	4.5-5.5	09	9	ISOLATED SHWRS/SQUALLS TROPICAL STORM 12W (AMPIL)(@356nm)	S @ 0.4kts Air Temp 83°/28°
21/03Z-06Z	E-SE	33-38 BRF 43	ESE-SSE	4.5-5.5	12	9	SCATTERED SHWRS/SQUALLS	SE @ 1.2kts Air Temp 83°/28°
21/06Z-09Z	ESE-SSE	30-35 BRF 40	ESE-SSE	4.5-5.5	12	10	ISOLATED SHWRS/SQUALLS TROPICAL STORM 12W (AMPIL)(@325nm)	SE @ 1.6kts Air Temp 83°/28°
21/09Z-12Z	ESE-SSE	28-33 BRF 38	ESE-SSE	4.5-5.5	11	9	ISOLATED SHWRS/SQUALLS	SW @ 1.3kts Air Temp 83°/28°
21/12Z-15Z	ESE-SSE	28-33 BRF 38	ESE-SSE	4.0-5.0	09	8	NONE TROPICAL STORM 12W (AMPIL)(@318nm)	S @ 1.4kts Air Temp 83°/28°
21/15Z-18Z	ESE-SSE	26-31 BRF 36	ESE-SSE	3.5-4.5	09	8	NONE	NE @ 0.4kts Air Temp 82°/28°
21/18Z-00Z	ESE-SSE	25-30 BRF 35	ESE-SSE	3.0-4.0	08	9	ISOLATED SHWRS/SQUALLS TROPICAL STORM 12W (AMPIL)(@332nm)	N @ 0.9kts Air Temp 82°/28°
22/00Z-06Z	ESE-SSE	20-25	ESE-SSE	2.0-3.0	07	7	ISOLATED SHWRS/SQUALLS TROPICAL STORM 12W (AMPIL)(@367nm)	WSW @ 0.9kts Air Temp 82°/28°
22/06Z-12Z	ESE-SSE	15-20	E-SE	1.5-2.5	07	6	ISOLATED SHWRS/SQUALLS TROPICAL STORM 12W (AMPIL)(@415nm)	N @ 0.9kts Air Temp 81°/27°
22/12Z-18Z	VEER SE-S-SW	15-20 BRF 25	E-SE MIXED S	2.0-3.0	09	8	ISOLATED SHWRS/SQUALLS TROPICAL STORM 12W (AMPIL)(@470nm)	SW @ 1.4kts Air Temp 81°/27°
22/18Z-00Z	VEER SW-W-NW	12-17	S-SW	1.5-2.5	08	8	NONE	SSW @ 0.9kts Air Temp 82°/28°
23/00Z-Dest	WNW-NNW	08-13	SW-W	1.0-2.0	08	9	NONE	SSW @ 0.9kts Air Temp 82°/28°

Comments: *Wind/Seas HIGHER in SQUALLS