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Bulletin No: **02** WW/OS/20/09/04/02
COLOR: **Amber**

HYPOTHETICAL OIL DRIFT PATTERN FROM THE VESSEL NEW DIAMOND

Issued by the Natural Hazards Early Warning Centre
At 09.00 p.m. 04 September 2020 for the period until 11.00 p.m. 07 September 2020

Prepared by ESSO-INCOIS, MoES, GOI-India

As per the request from Department of Meteorology, Sri lanka, a hypothetical oil drift simulation was carried out using INCOIS oil spill model and the advisory is issued as below:

Hypo Spill location: $6^0$47' 06"N 82^0 11' 08"E (Updated vessel position)

Fuel On- Board: 2,70,000 MT of Crude oil and 1700 Tons of Diesel Oil

Hypo Spill start date/time: 210O hrs of 04 Sep 2020

Oil spill model run Duration: 2100 hrs of 04 Sep 2020 - 2100 hrs of 08 Sep 2020 (Local Time)

Hypothetical oil spill Advisory (Worst case scenario)

The model was run from the vessel location for the above mentioned duration. As per the simulation, the oil drift pattern from the vessel is towards South during 2300 hrs of 05 Sep 2020. Further, the drift pattern is towards east and moving offshore during 2300 hrs of 06 Sep 2020. Later, it moves eastward during 2300 hrs of 07 Sep 2020. The oil spill trajectory maps generated at 2300 hrs of 05 to 07 Sep 2020 is enclosed for the reference.

As per the simulations, based on hypothetical spill start time and considering the worst case scenario of spillage (70,000 MT of crude oil and1700 MT of Diesel oil), Srilankan coast is not under threat of being affected by oil pollutants untill 2300 hrs of 07 Sep 2020, provided there is no change in vessel position. However, the oil drift pattern will be forecasted in periodic intervals with updated vessel position and different spill start timings.

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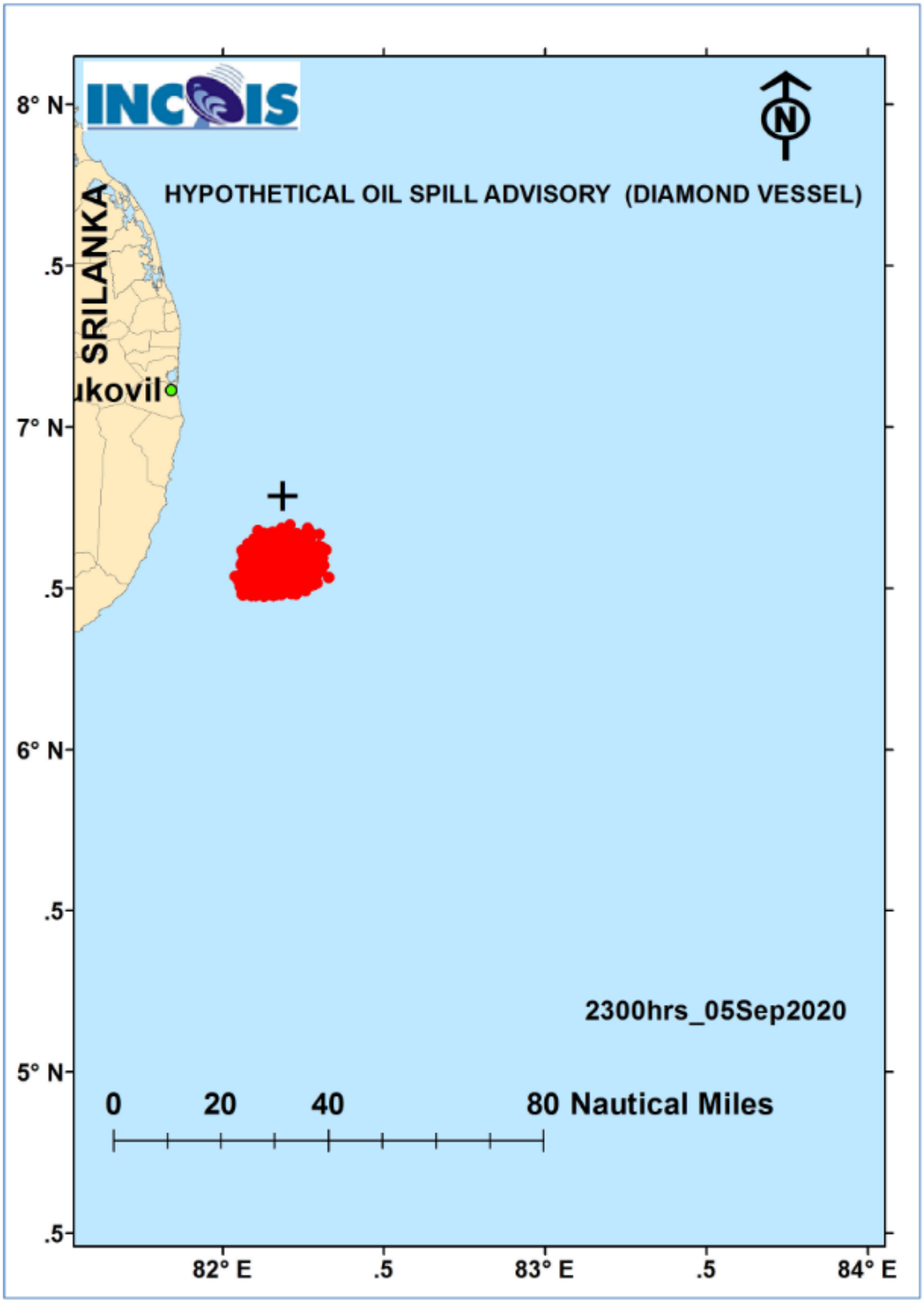

Figure 1: Oil drift pattern 2300hrs_05-Sep-2020. The Black (+) symbol, denotes the Hypo spill location and the red coloured dots(floating) are the oil particles.

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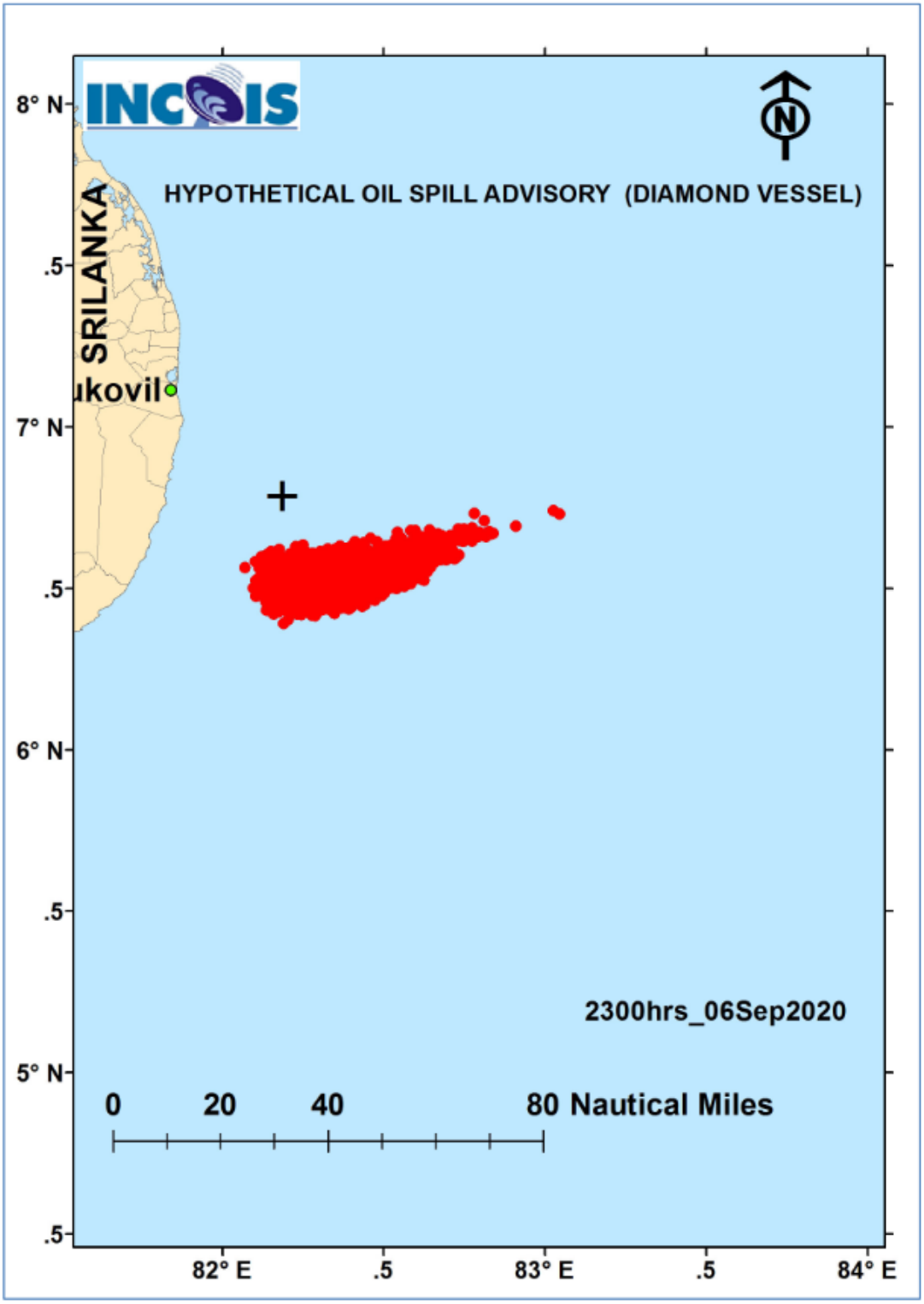

Figure 2: Oil drift pattern 2300hrs_06-Sep-2020. The Black (+) symbol, denotes the hypo spill location and the red coloured dots (floating) are the oil particles.

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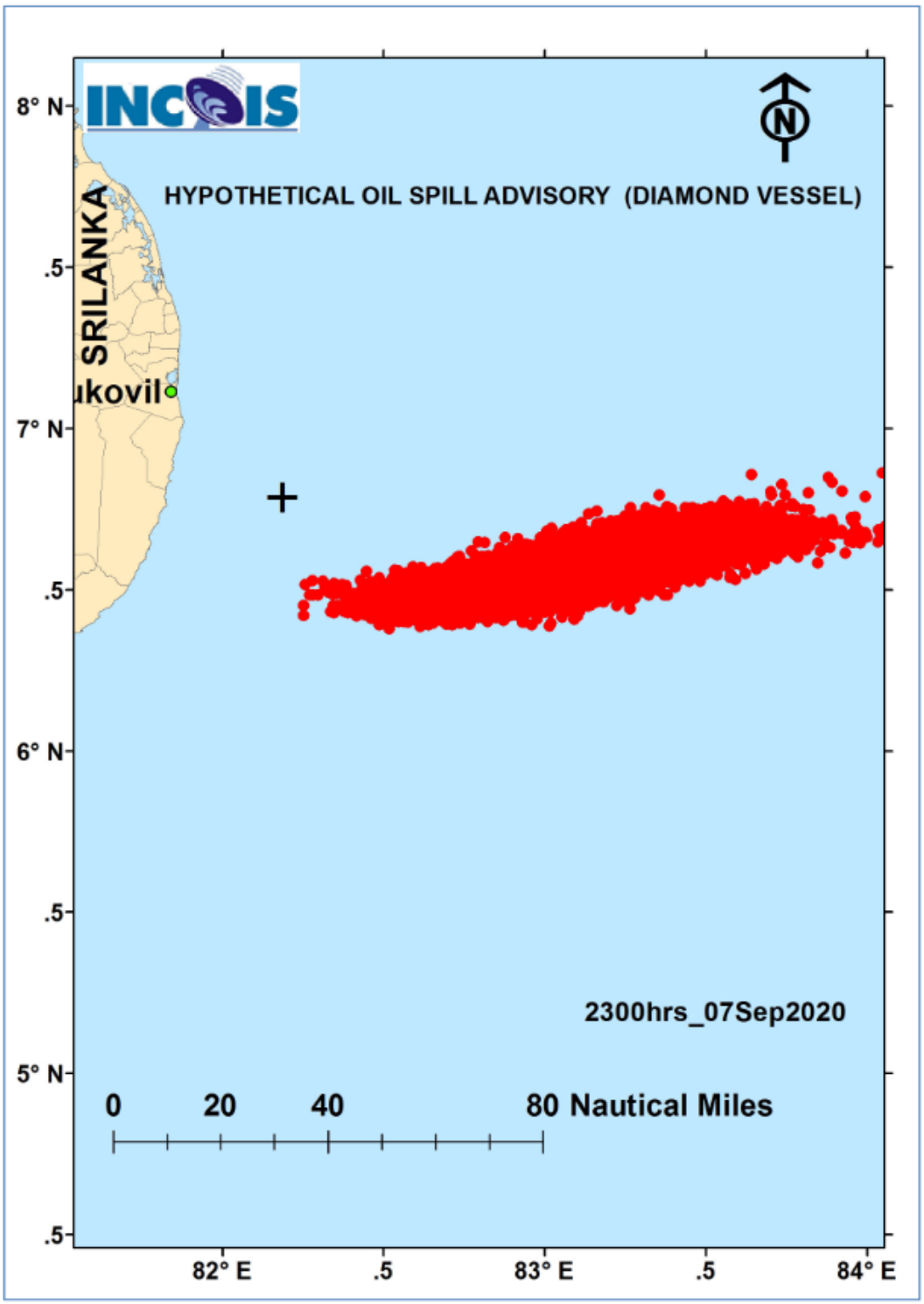

Figure 3: Oil drift pattern 2300hrs_07-Sep-2020. The Black (+) symbol, denotes the hypo spill location and the red coloured dots (floating) are the oil particles.