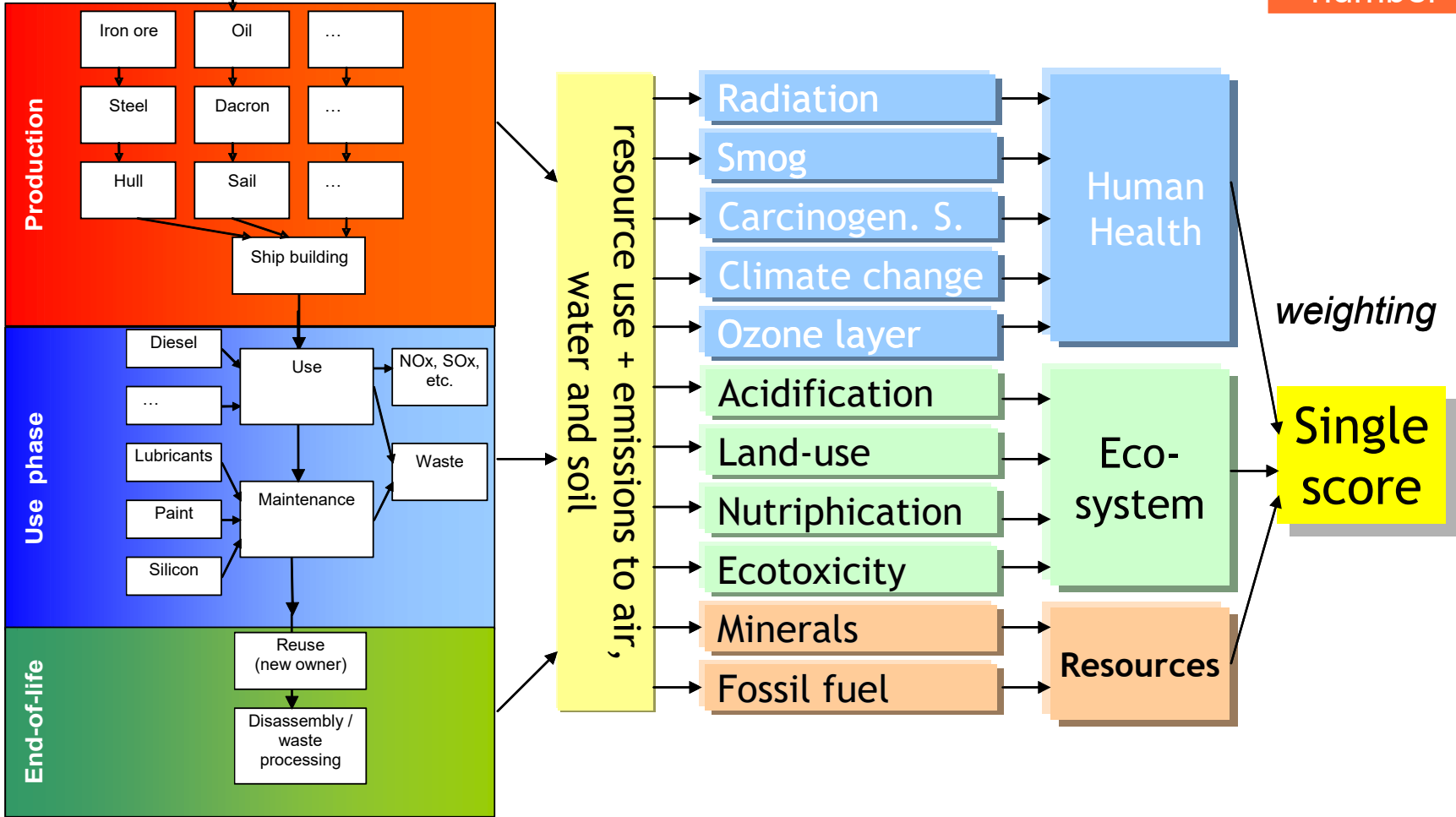




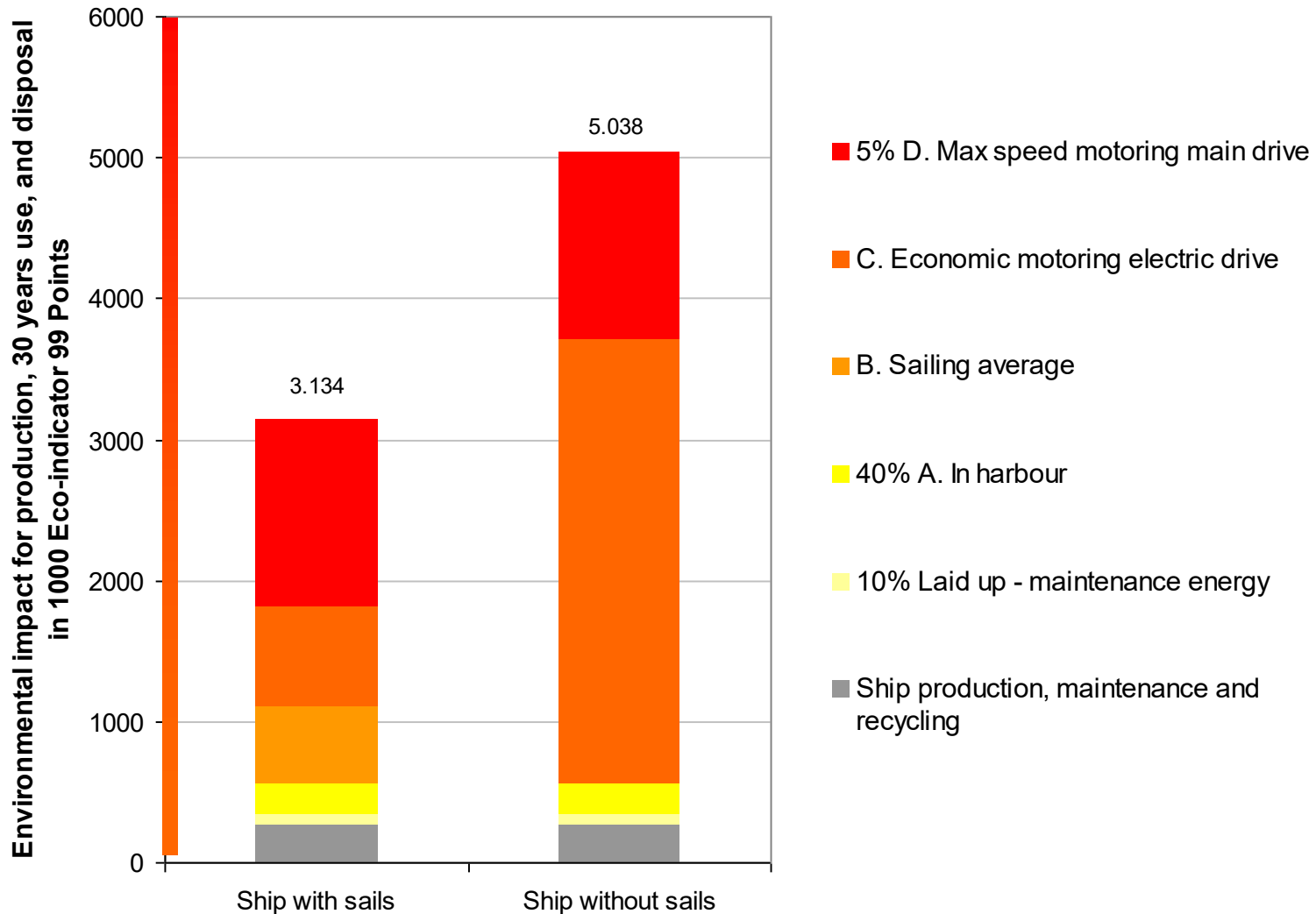




ECO INDICATOR POINTS



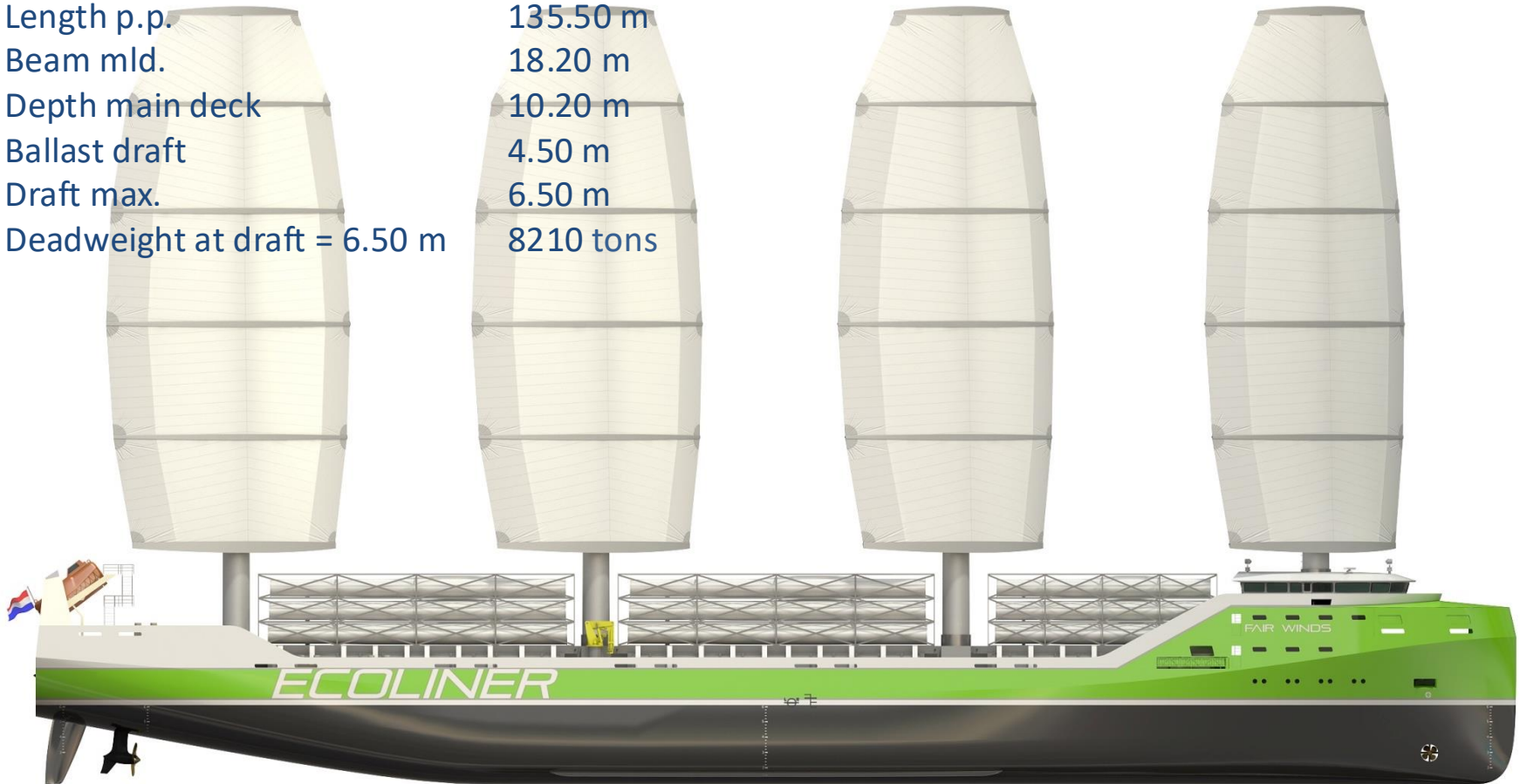
Life cycle analysis Sailing ship or Motor ship, 30 years use



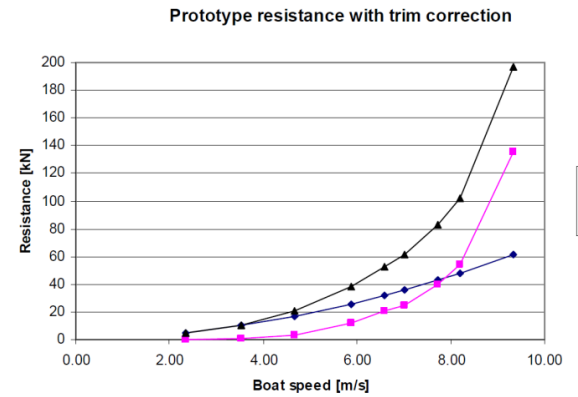
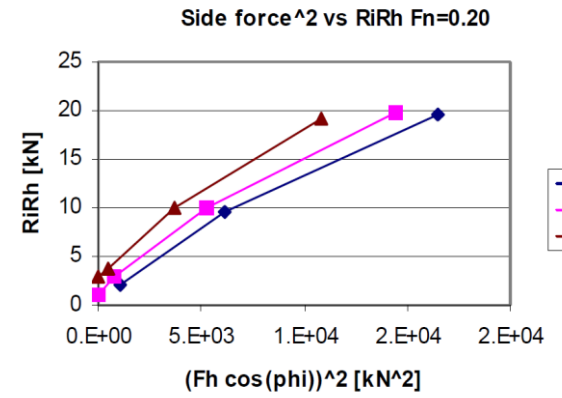
Ecoliner GENERAL SPECIFICATION

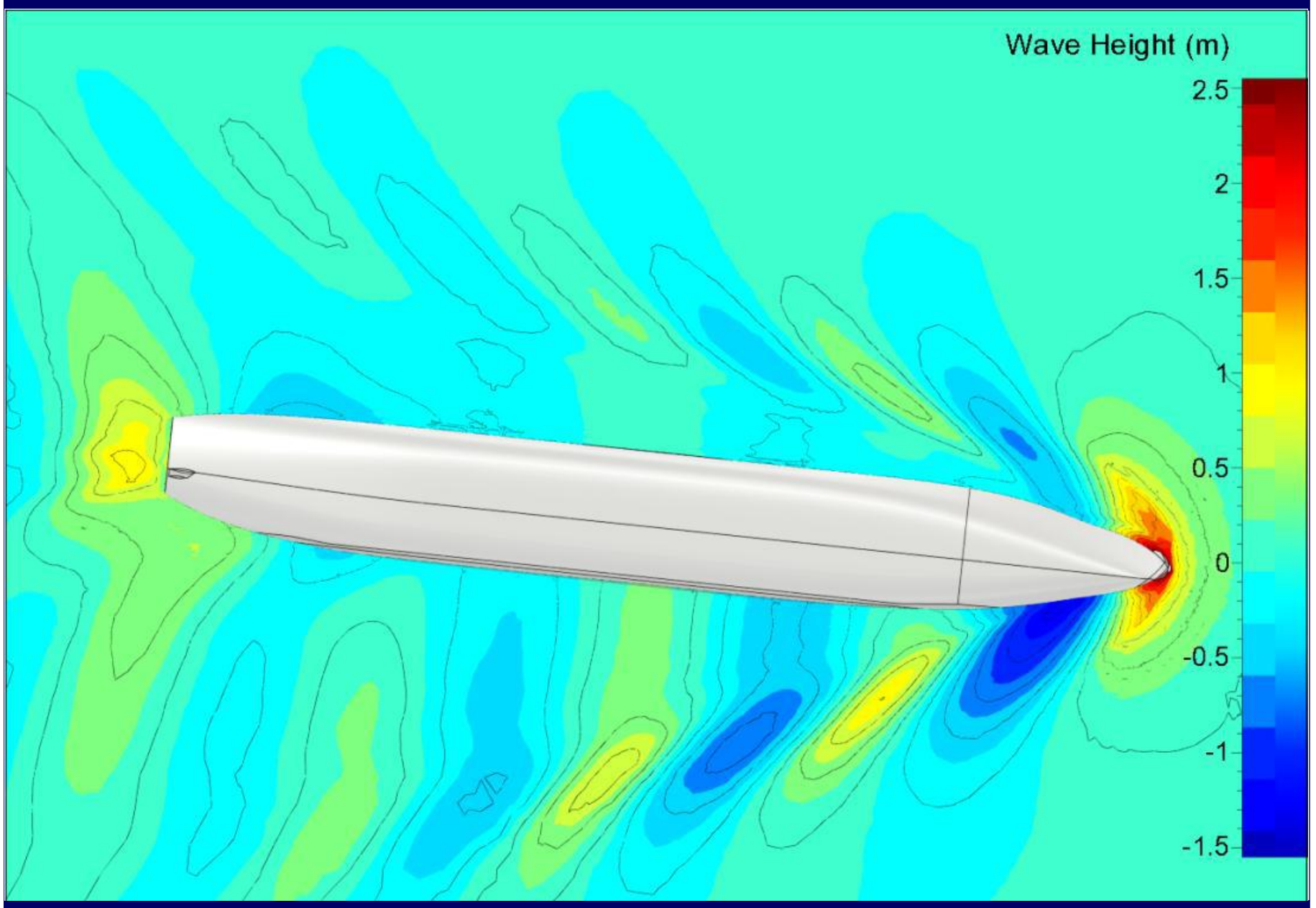
PRINCIPAL DIMENSIONS

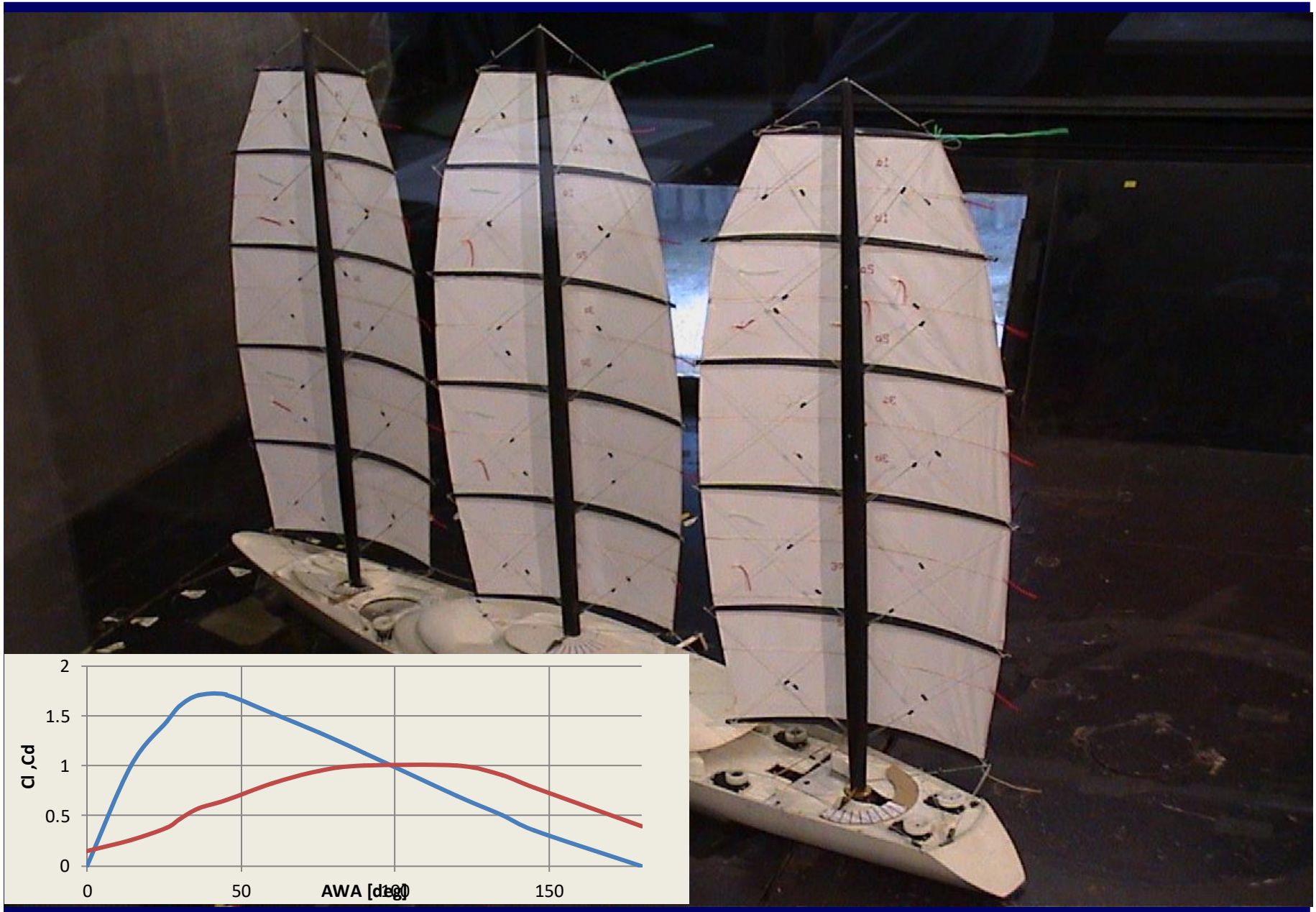
Length o.a.	138.00 m
Length p.p.	135.50 m
Beam mld.	18.20 m
Depth main deck	10.20 m
Ballast draft	4.50 m
Draft max.	6.50 m
Deadweight at draft = 6.50 m	8210 tons

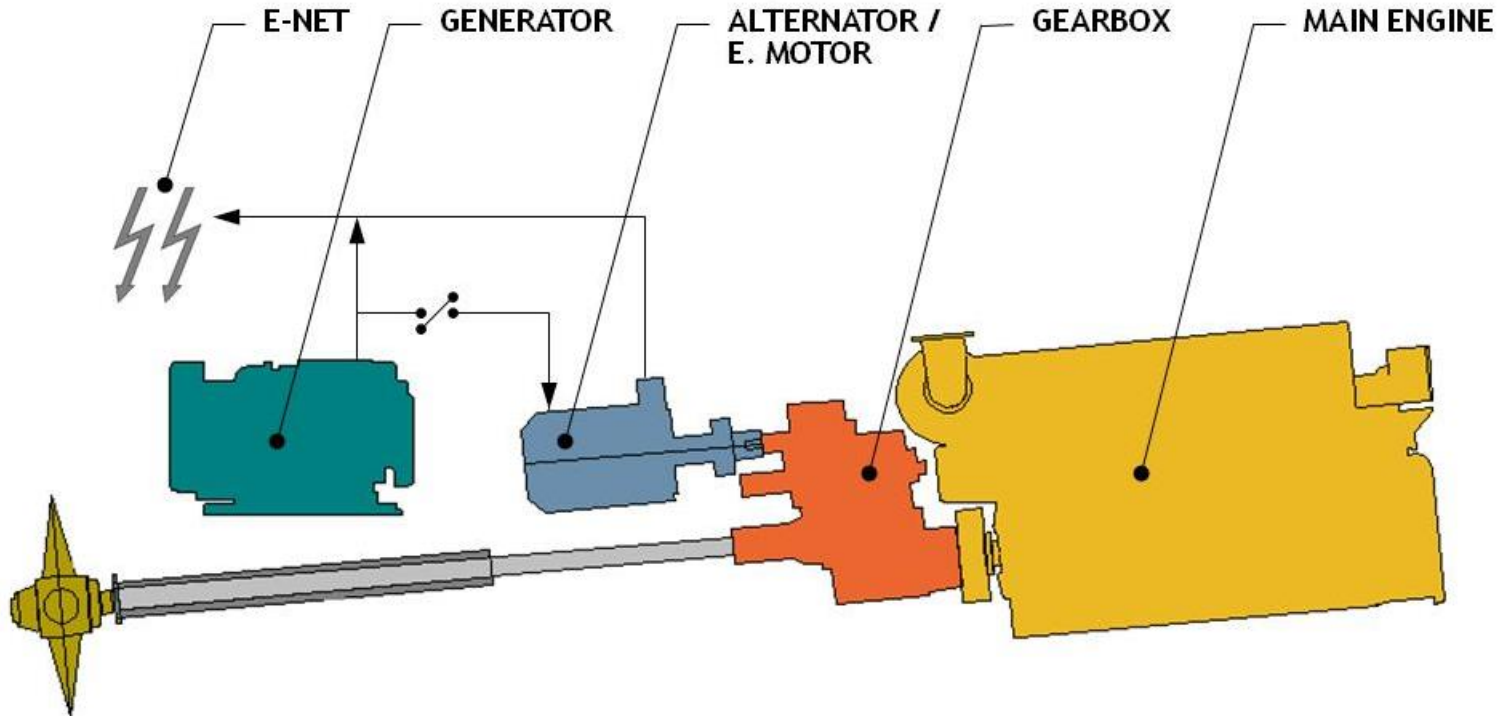
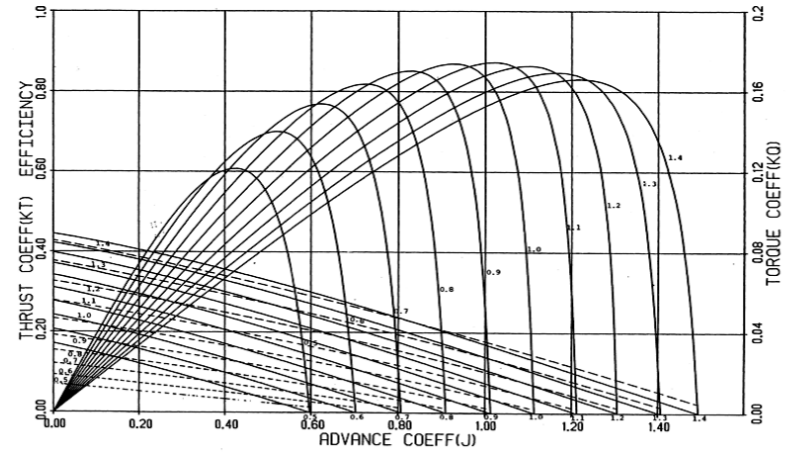
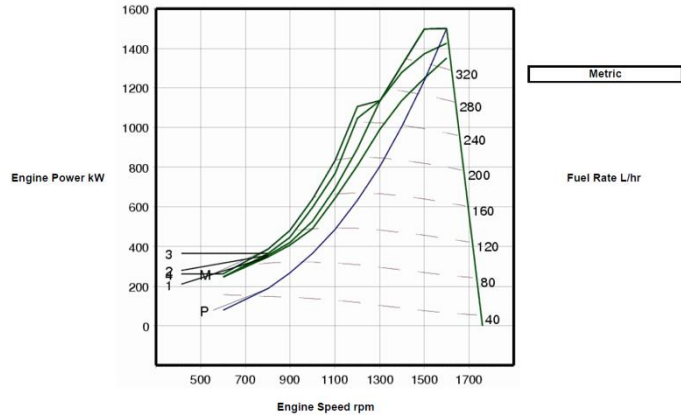


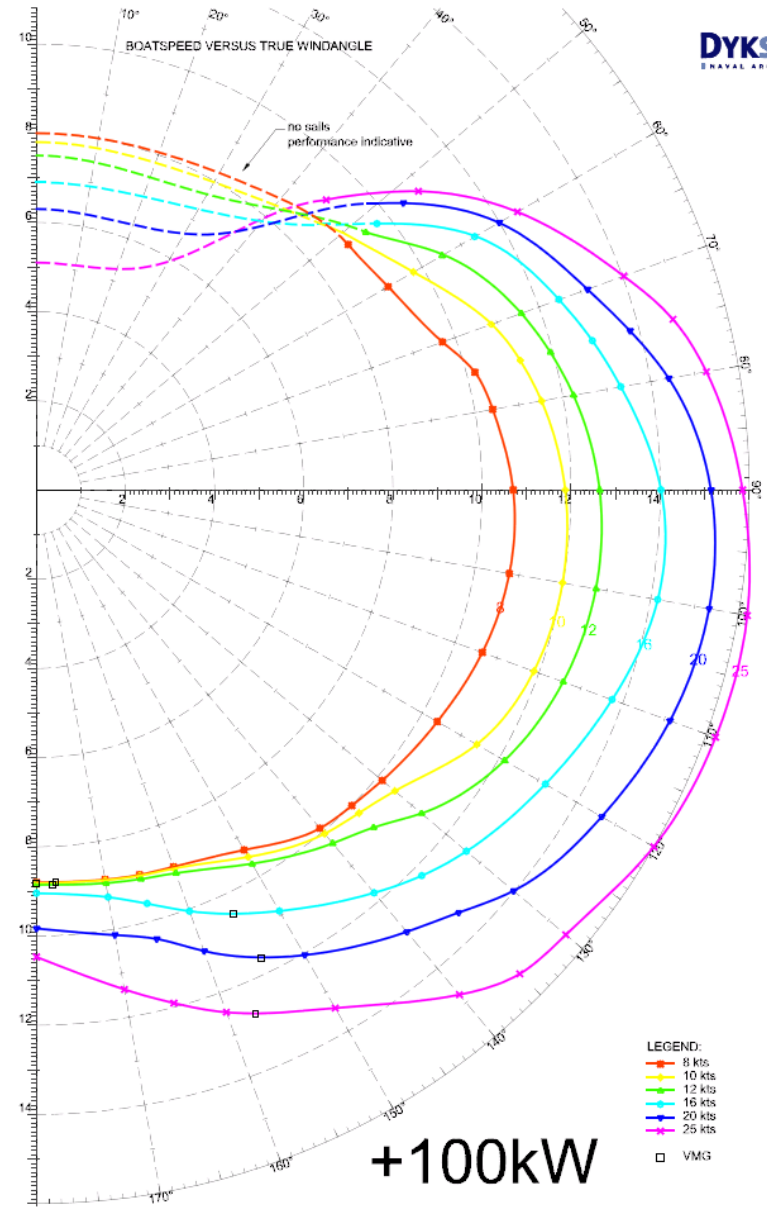
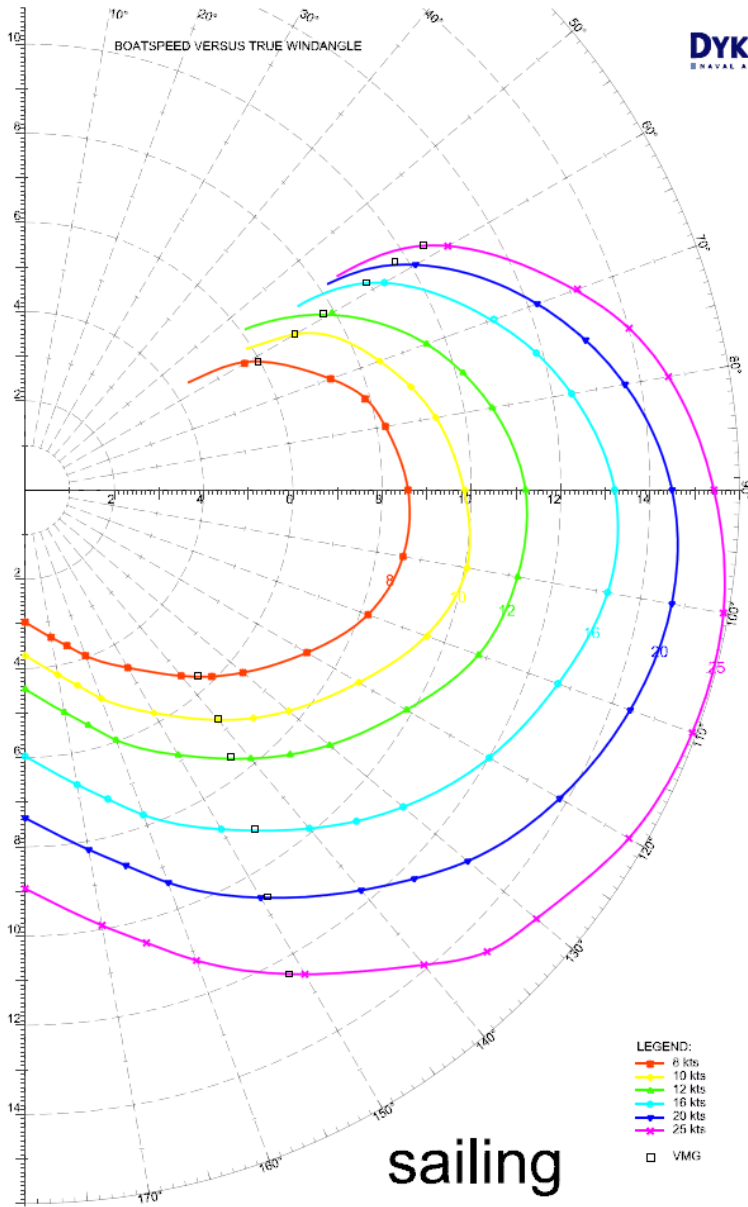






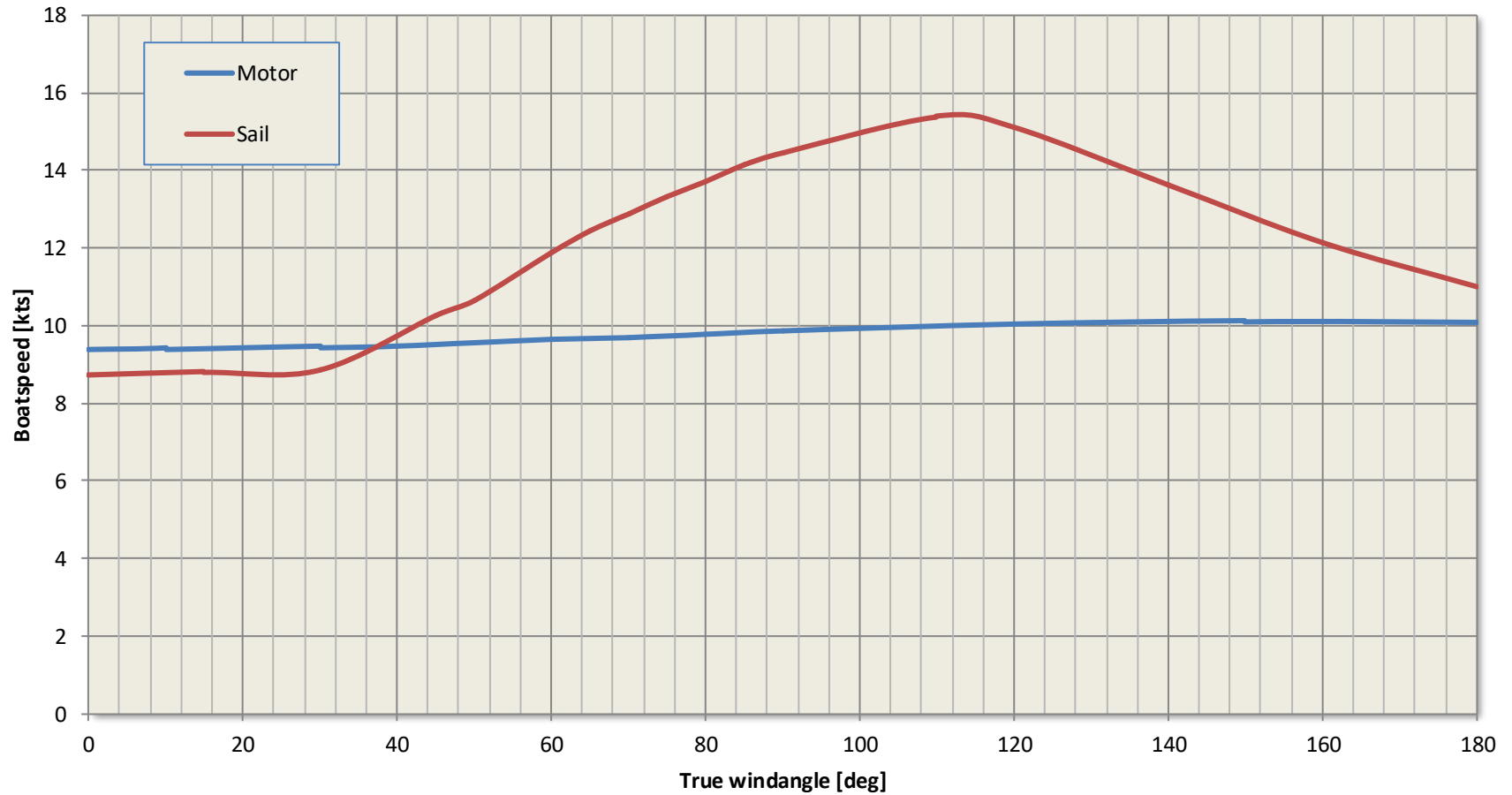




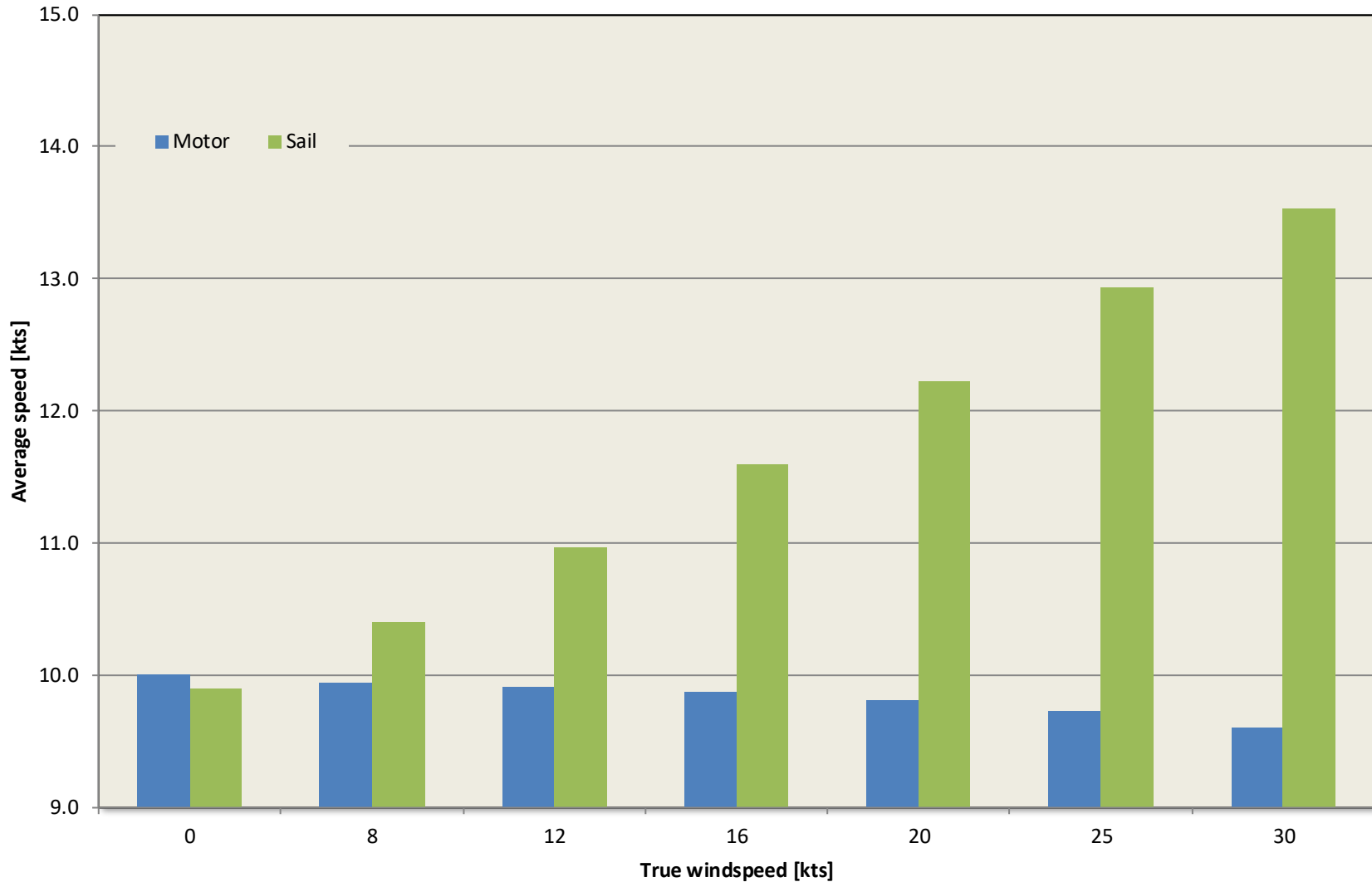


The gain of motor sailing

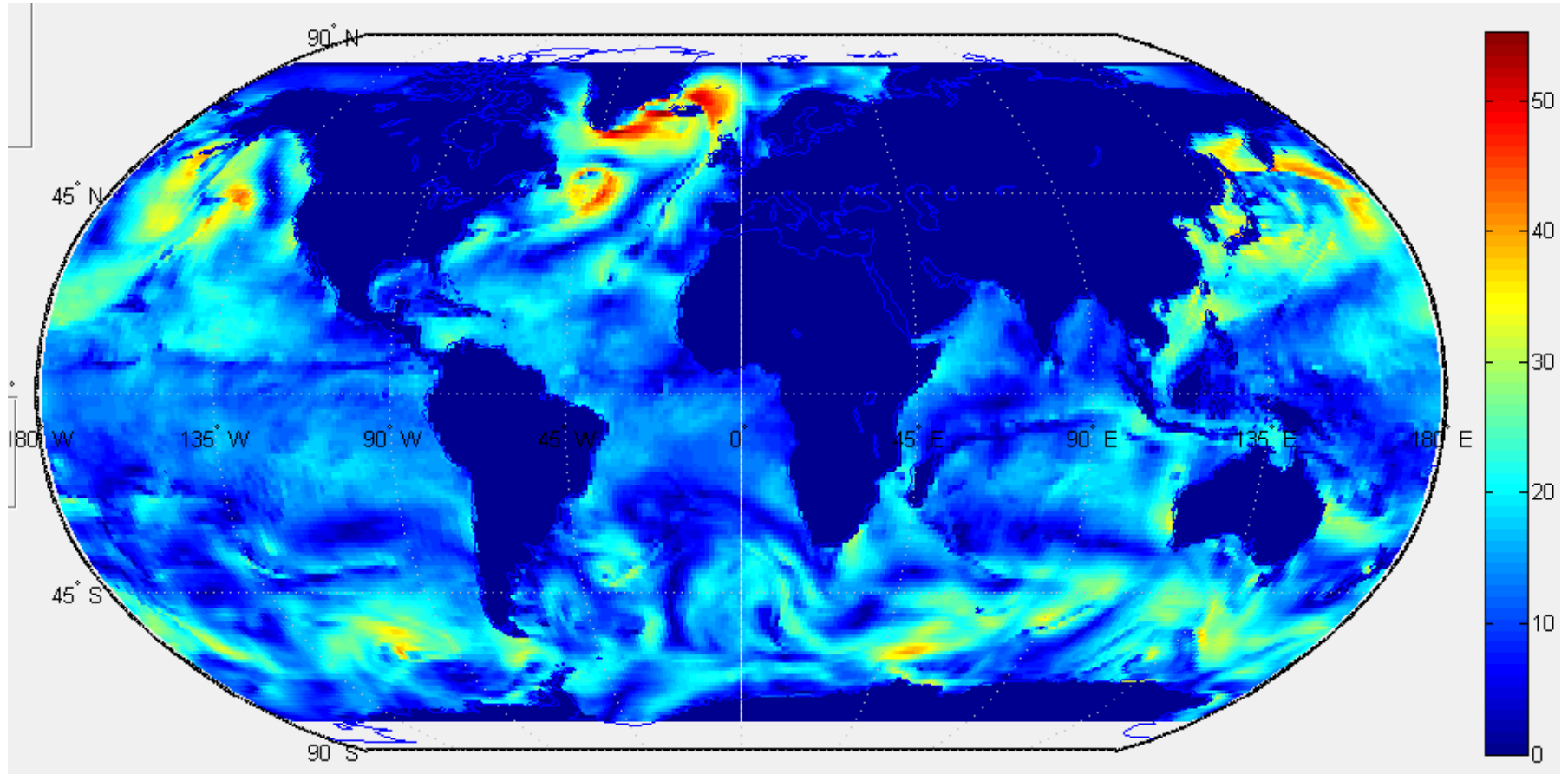
TWS 20 kts

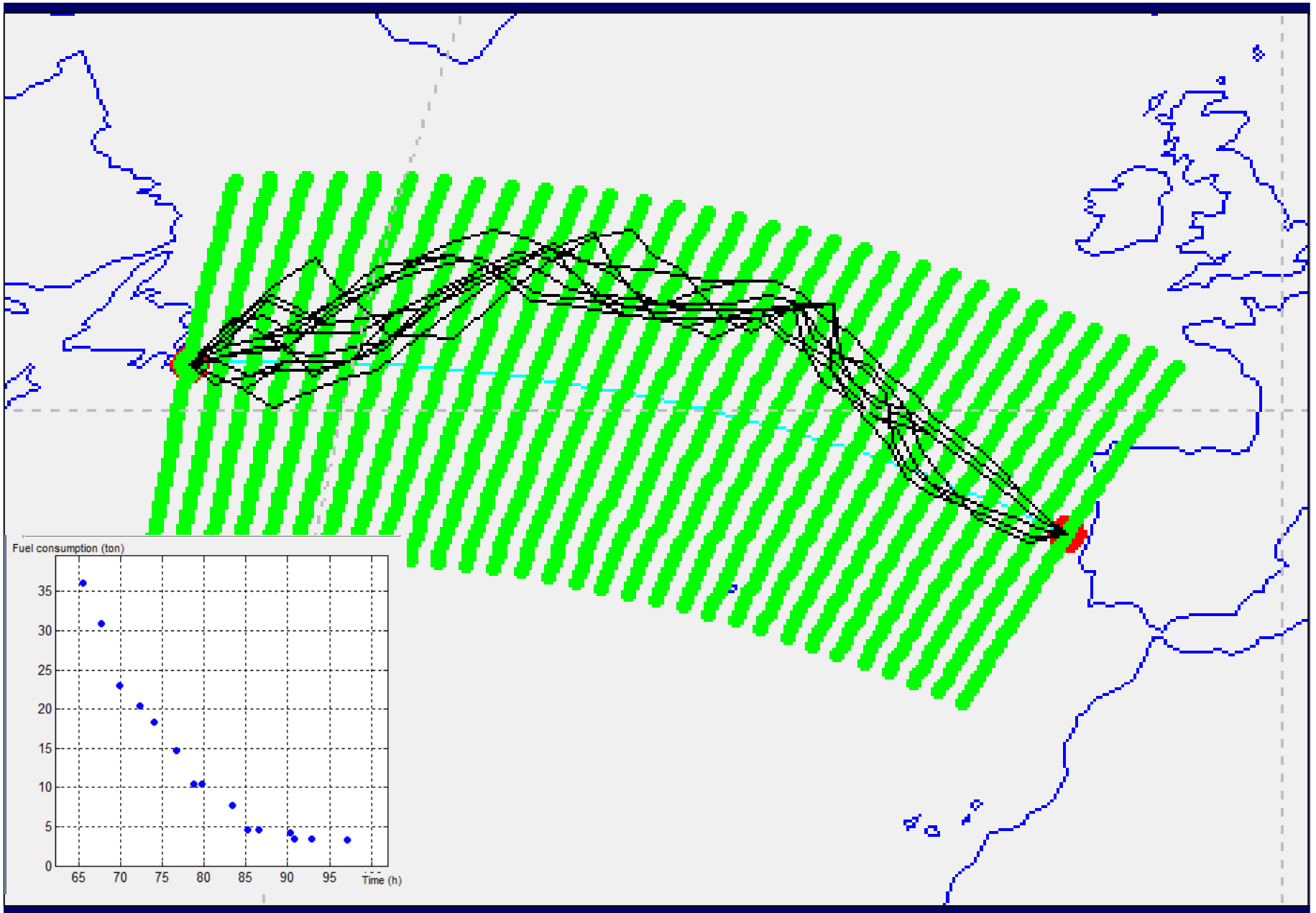


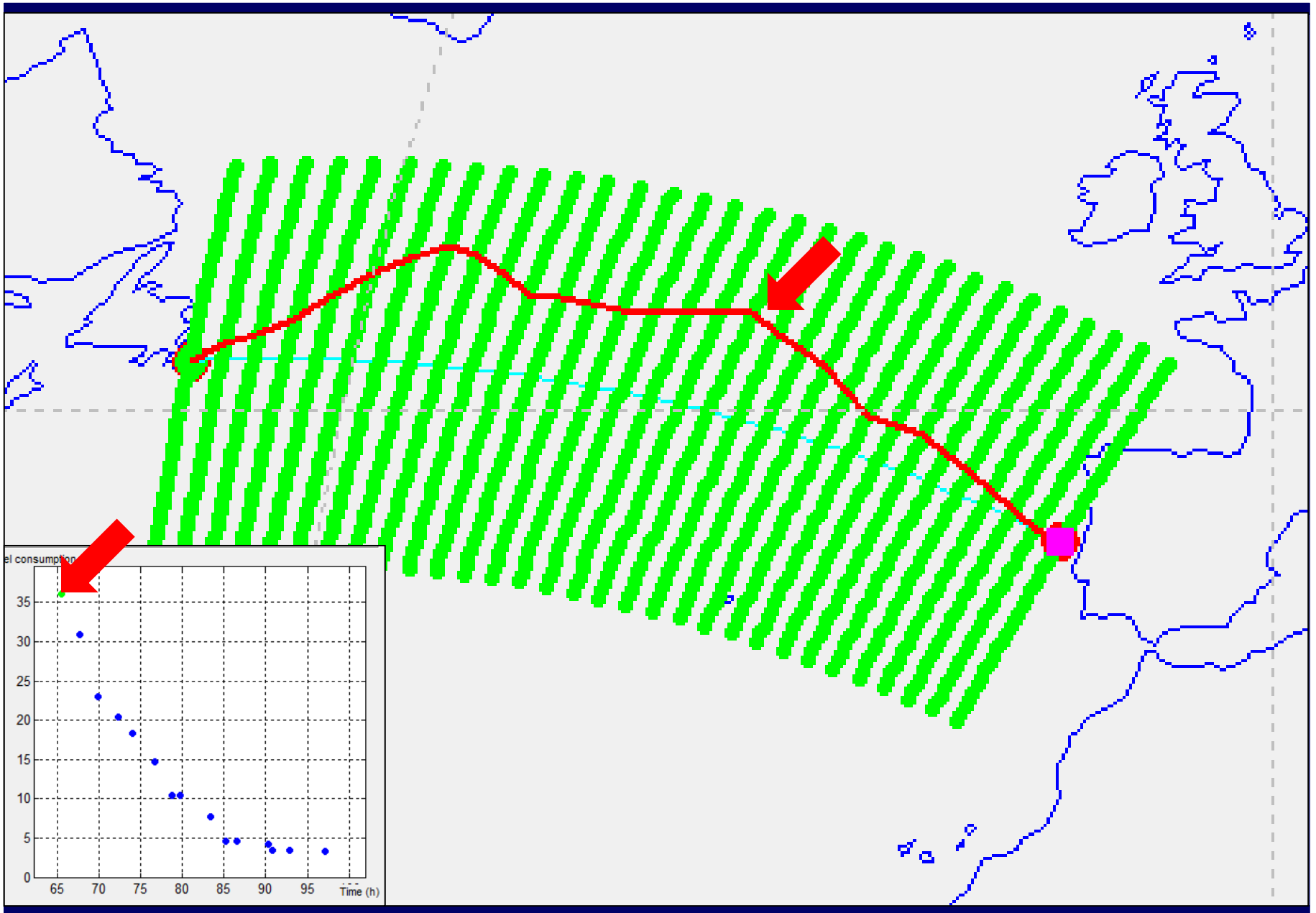
The gain of motor sailing

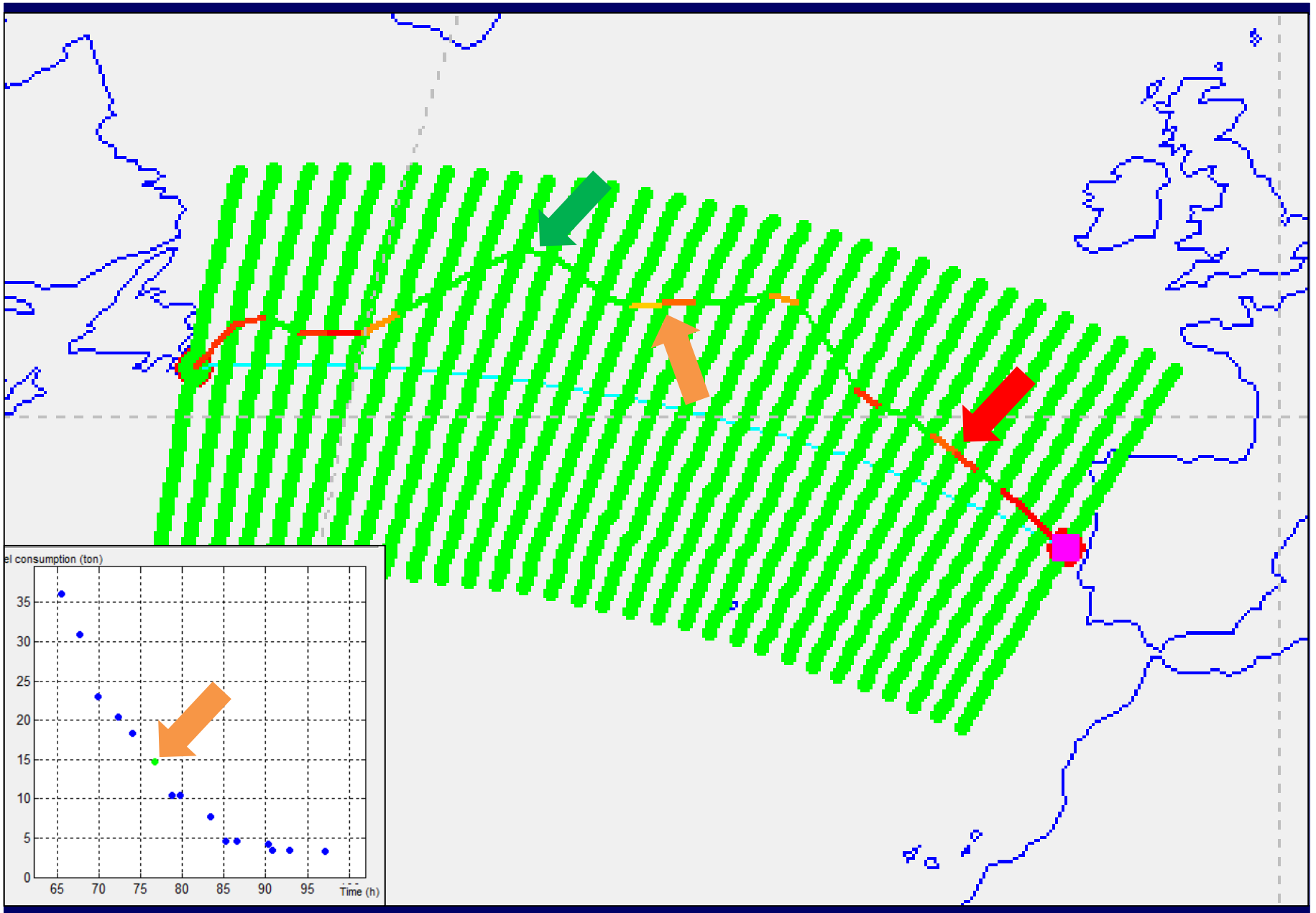


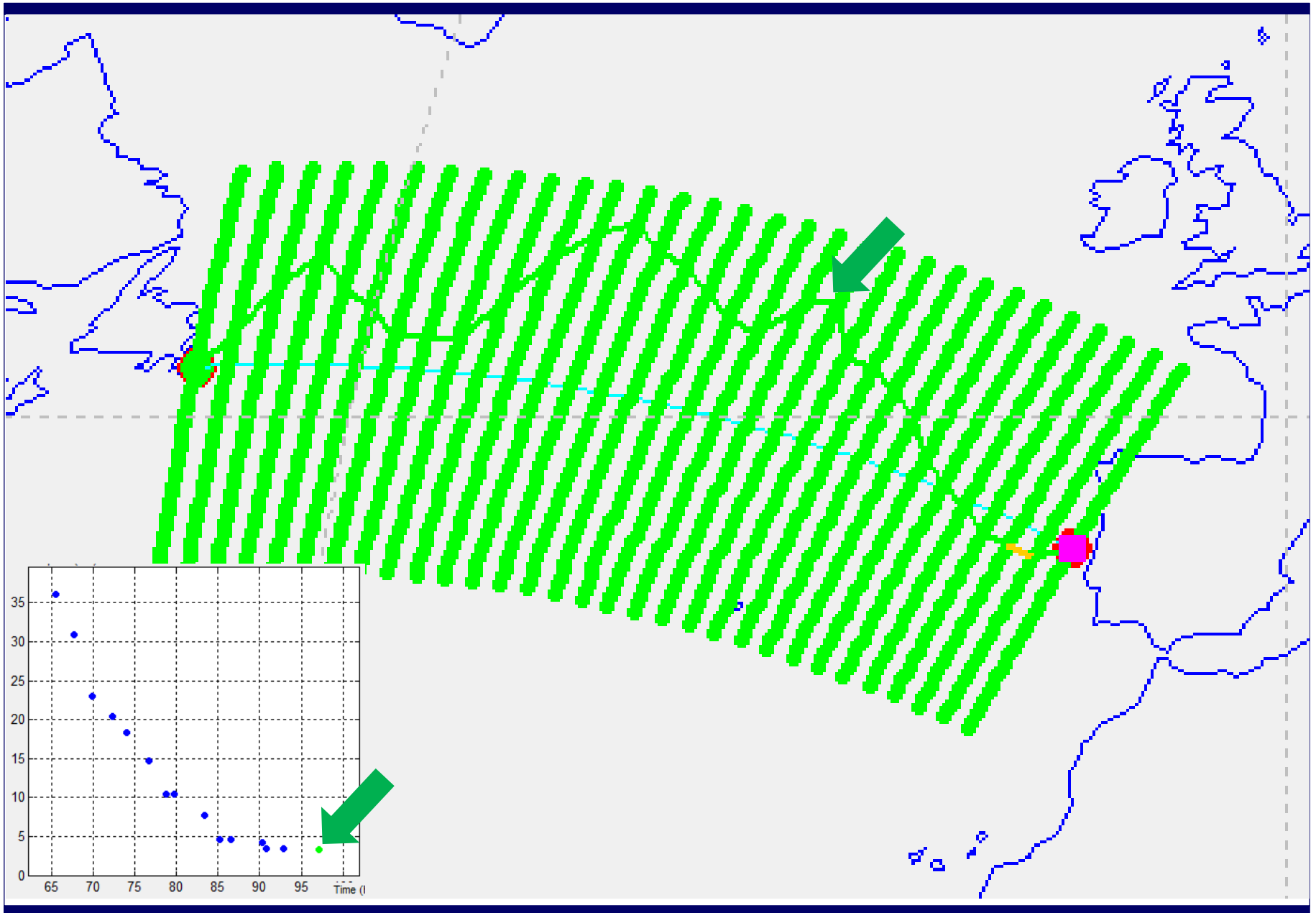
Making good use of weather forecast: Dykstra in house weather routing software











Routing simulations

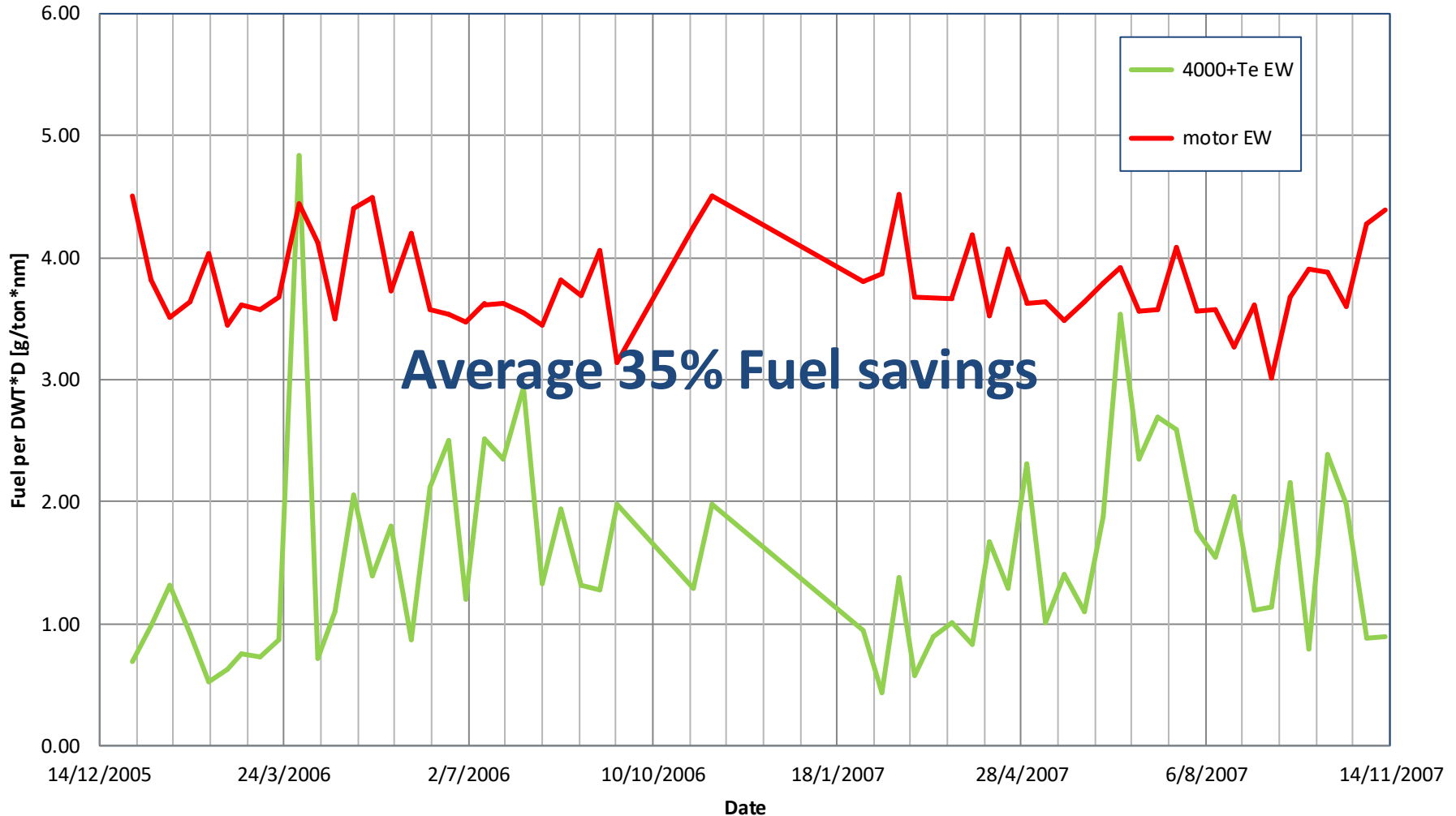


- Comparison of design concepts of the Ecoliner
- 2 years of weather data files
- Comparing cost, fuel consumption
- 2 way operation East to West, West to East



Results routing with weather archive

Fuel East -West



GREENHOUSE GASES
POLAR SEA WEATHER CAP & TRADE WARMING
CLIMATE CHANGE
CO₂ EMISSIONS
GLOBAL WARMING





Fair winds..

