FREIGHT 21

INTEGRATING FREIGHT WITH RAIL

Rail Freight in the East:

Cost and Performance Analysis: Maps and Plots only

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Abstract

We compare the costs and performance for rail container freight travelling from Felixstowe to Nuneaton using three possible routes: (1) the existing route via Ely; (2) the proposed route from Cambridge to Oxford of East West Rail Co; (3) an alternative Freight21 study route via Cambridge and Bletchley. We find that (3) would cost £1.45bn less to build and would emit 0.5Mt of GHG less in construction than (2); and that (3) would save about 75% of the GHG emissions and at least 10% of the journey time for the current route (1). We also find that (3) outperforms (2) for passenger services between Oxford and Cambridge.

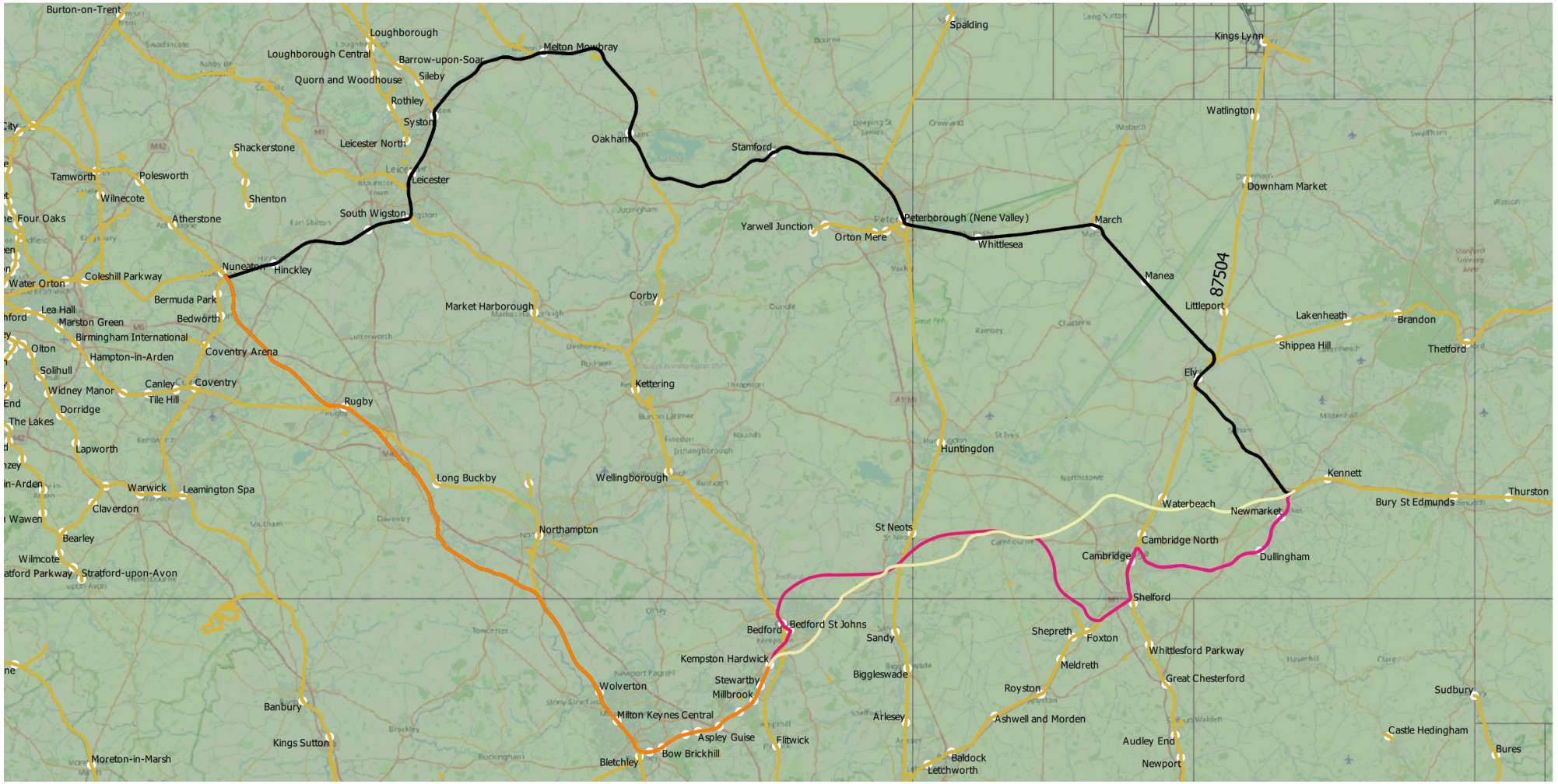

Figure 1: Three routes, via Ely in black, EWR in red, F21 in yellow

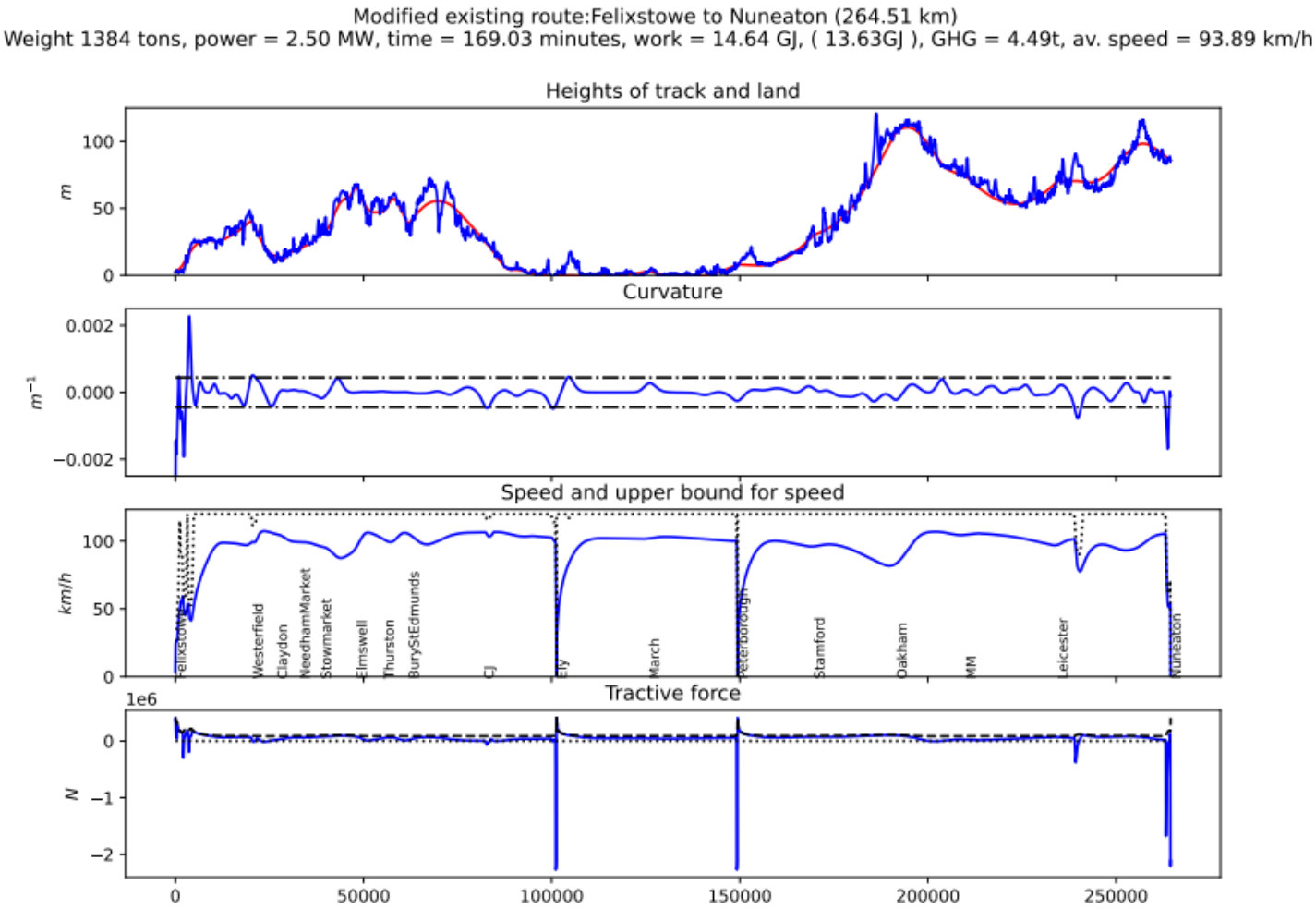

Figure 2: Ely route, Class 66, three stops, 66 TEU

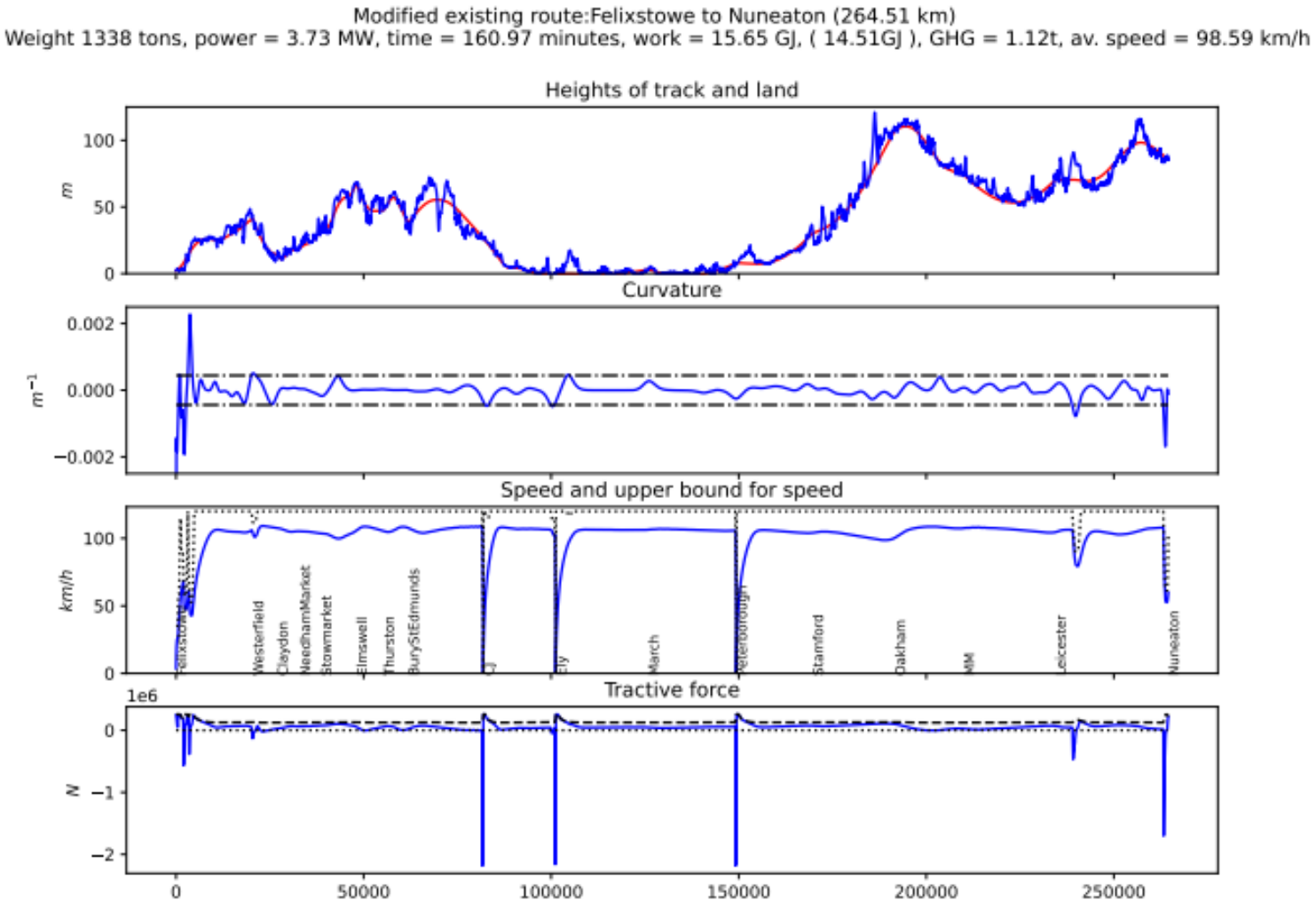

Figure 3: Ely route, Class 90, three stops, 66 TEU

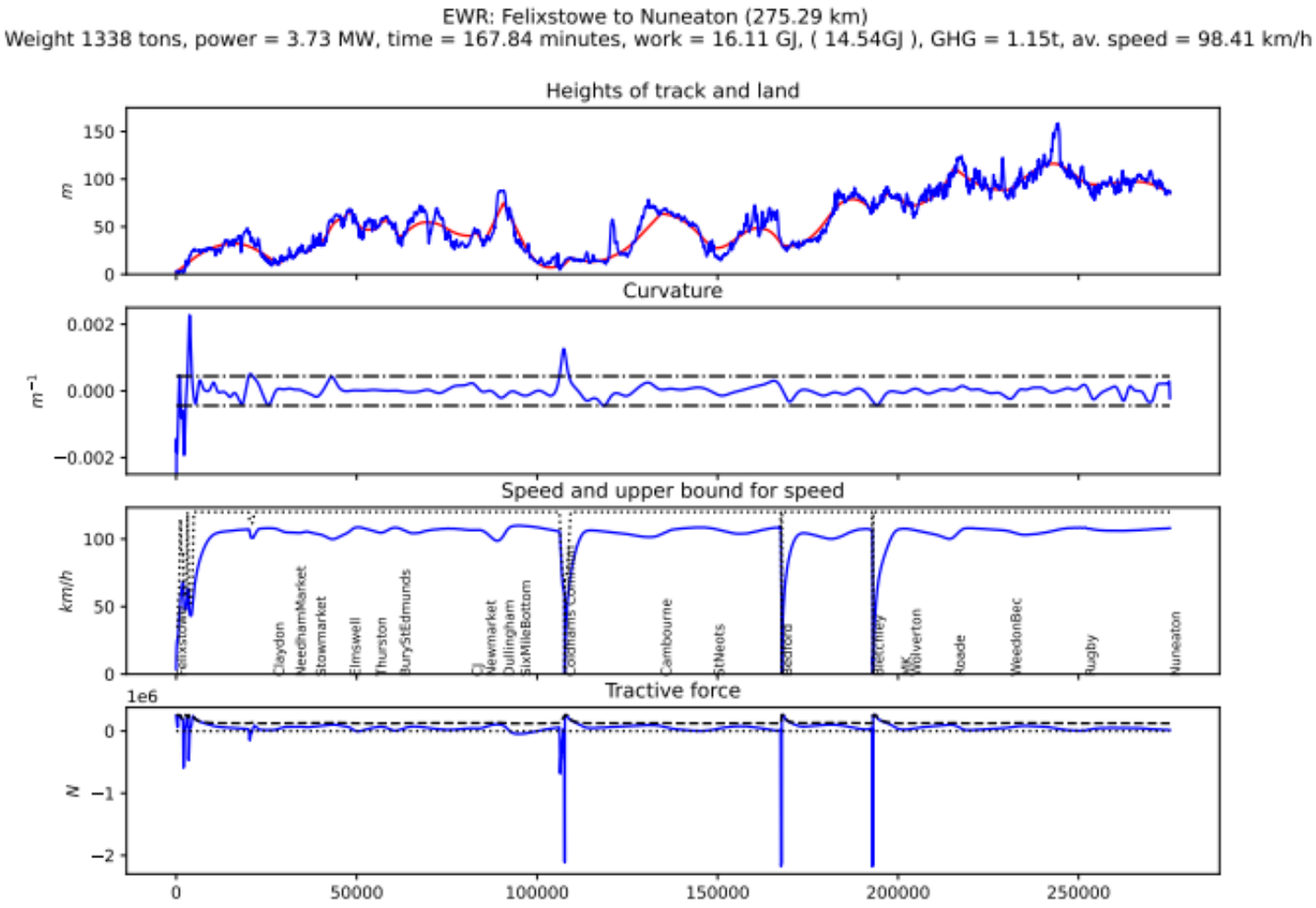

Figure 4: EWR route, Class 90, three stops, 66 TEU

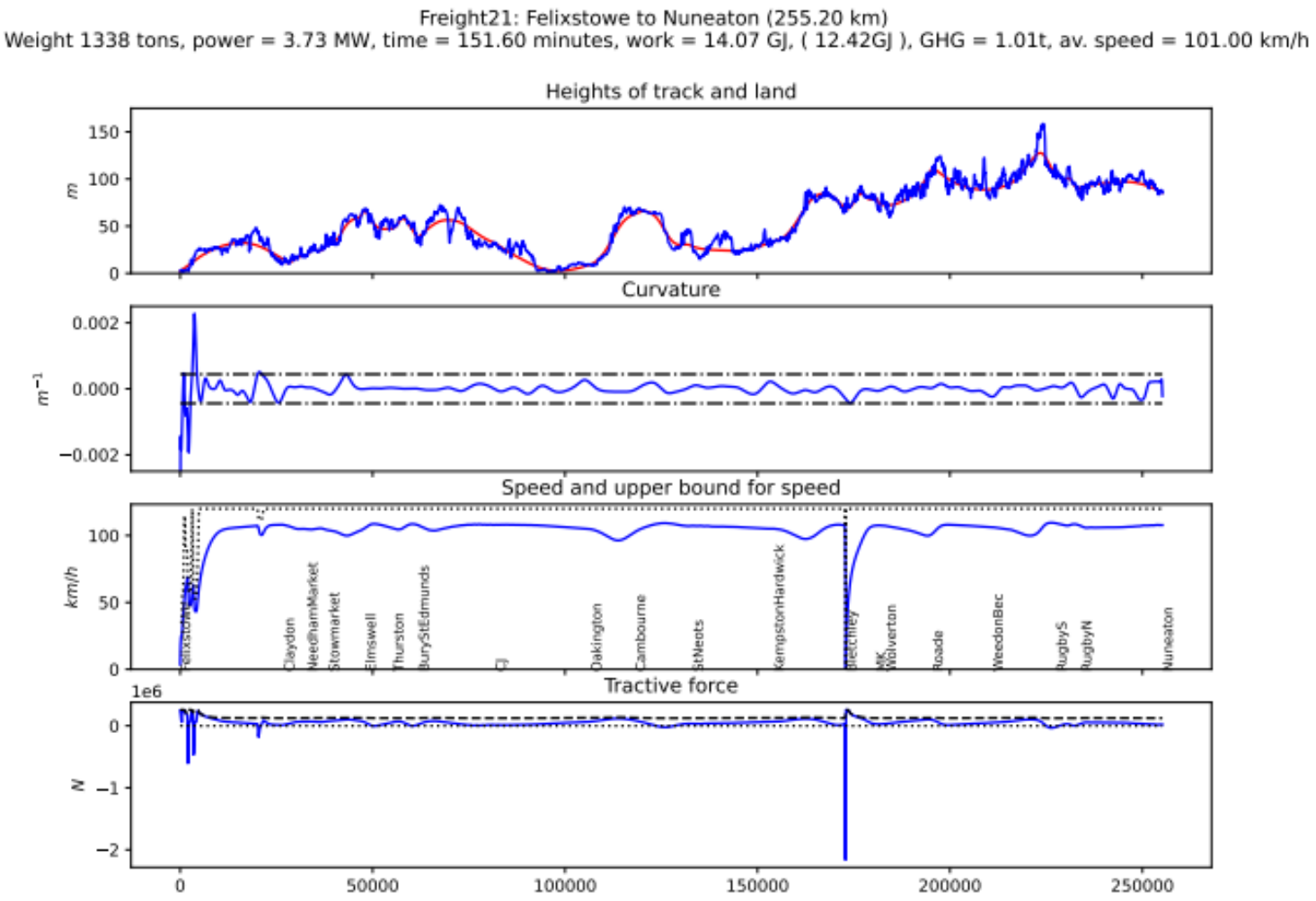

Figure 5: Freight21 route, Class 90, 1 stop, 66 TEU

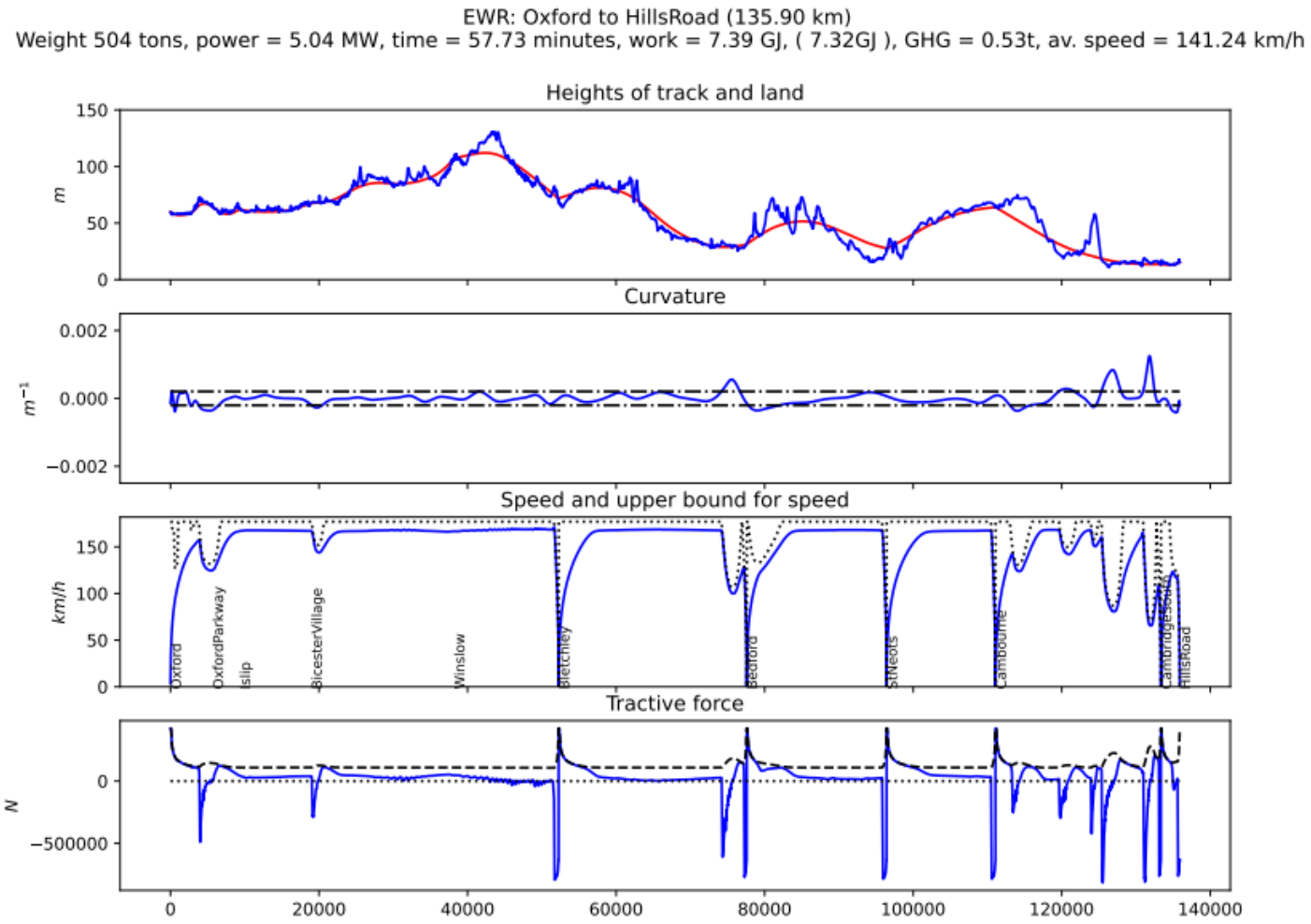

Figure 6: Passenger Train Oxford to Cambridge stopping, EWR route.

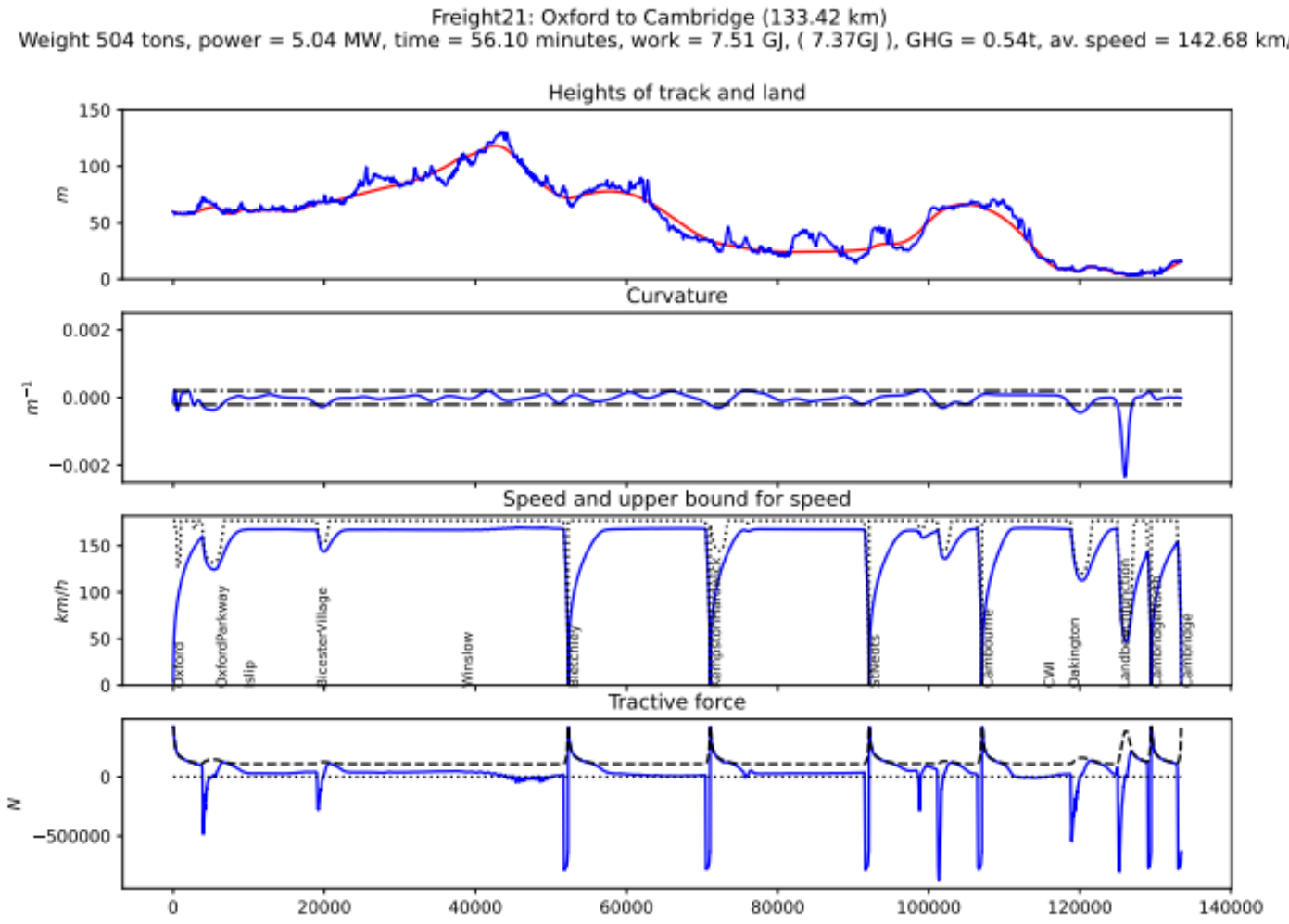

Figure 7: Passenger Train Oxford to Cambridge stopping, Freight21 route

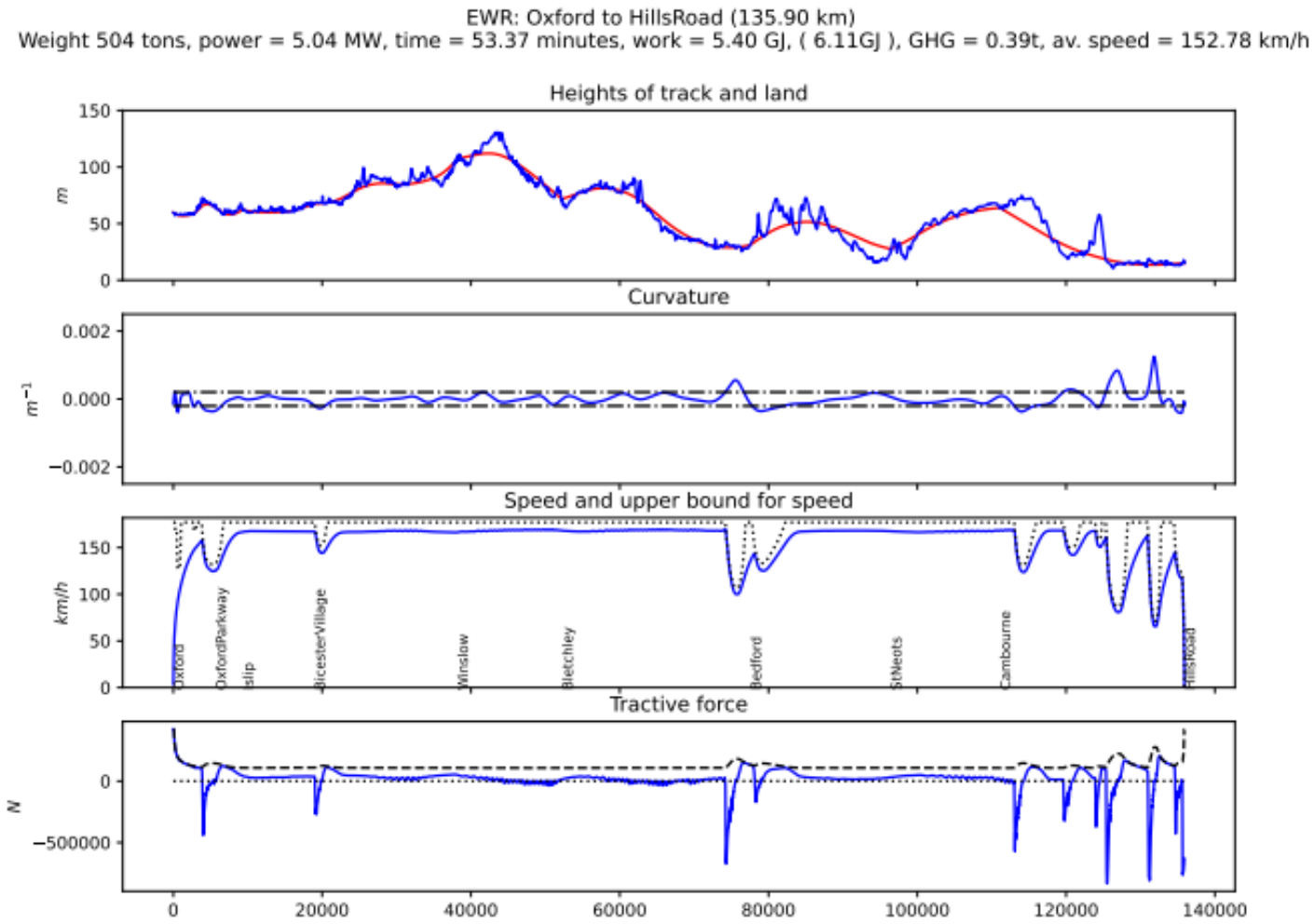

Figure 8: Passenger Train Oxford to Cambridge non-stop, EWR route

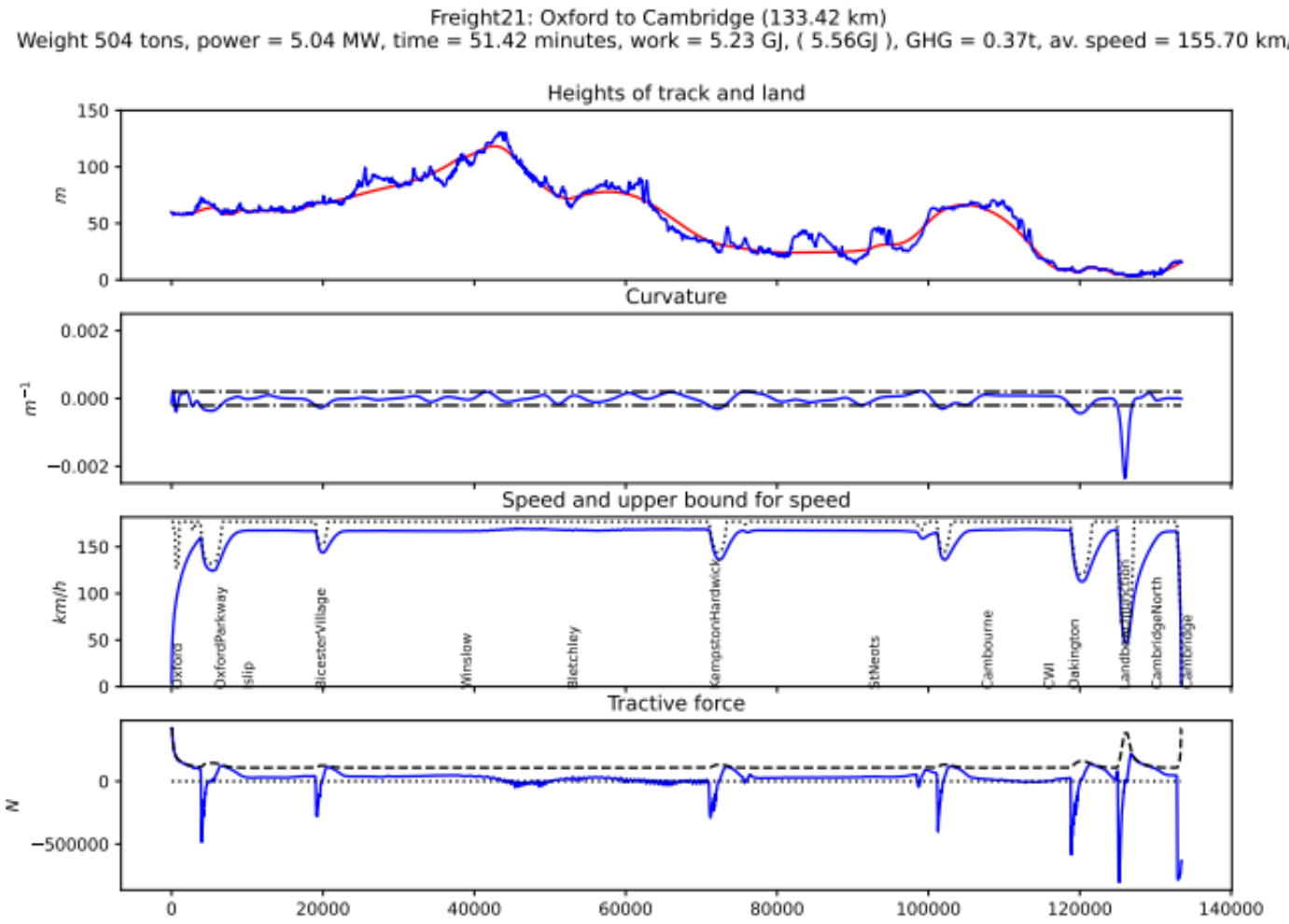

Figure 9: Passenger Train Oxford to Cambridge non-stop, Freight21 route