### M20 D3.1

**TrainDy Simulations** 







### Purpose

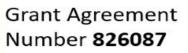
- Answer to the question what is the maximum train length or train hauled mass according to the different "technology" employed?
- "Technology" means not only the type of radio (GSM-R, LTE, 5G), but also:
  - the brake regime of the wagons,
  - the number of Traction Units and their position
  - the way to handle the degraded mode

Example of label BR187400\_300\_G\_LL\_3\_2\_4\_0\_1\_5\_0\_0\_1\_70\_5

- Trains are considered formed by sub-trains.
- Trains are built statistically, according to the Leaflet UIC 421.
- Inputs for the statistical engine are taken from real-world-trains running in Germany.
  - Sub-train mass distribution, wagon type distribution, payload distribution for each wagon.



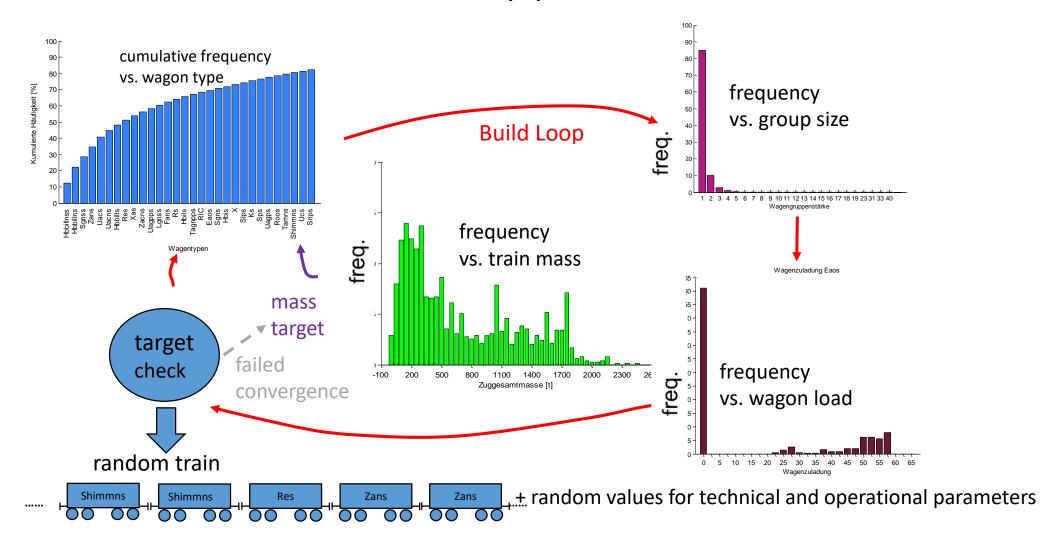






Statistic approach New system Trains with length 700 < L < 1000 m in brake regime G including mass restrictions All trains Reference system **New system VS Reference System** LL-trains ≤ 1600t System GP-trains ≤ 1200t Systen High hazard Low hazard rate rate marathor MAke RAil The HOpe for **Grant Agreement** protecting Nature 2 future Number 826087 2 operation **OPERATION** 

### Statistic approach

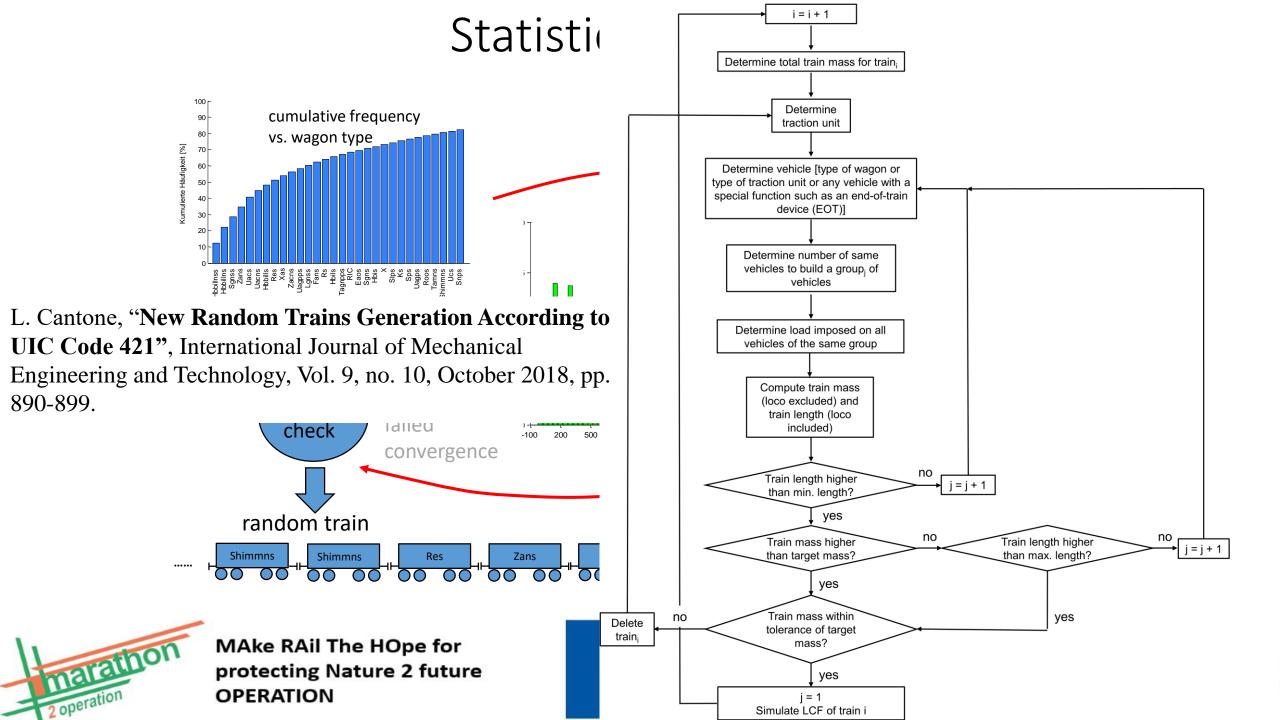




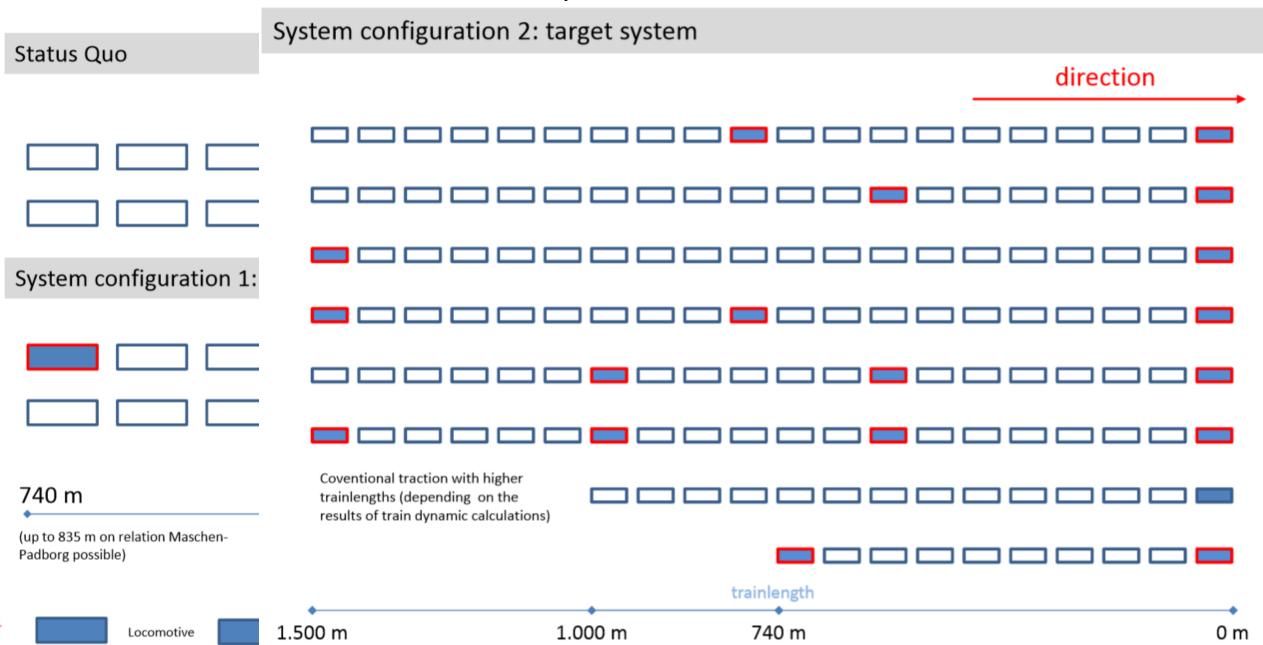
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### Examples of trains

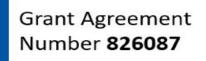


### Inputs from Sensitivity Analysis

- Deliverable D2.2
  - <a href="https://www.marathon2operation.eu/web/pdf/D2.2">https://www.marathon2operation.eu/web/pdf/D2.2</a> TrainDy Sensitivity Analysis.pdf
  - https://www.marathon2operation.eu/web/pdf/M2O D2.2 Extended results.pdf
- Main results: among all technical parameters, the most relevant are:
  - Time needed to fill the braking cylinder at 95% [+/- 25%];
  - Pressure in brake cylinder for "in-shot function" phase [+/- 10%];
  - Mean efficiency of the rigging [+/- 8%];
  - Delay scatter in GSM-R communication [+/- 30%]
  - 1000 is an appropriate size for the statistic sample
- From the S2R tests of May:
  - Gap between buffers: 40 mm
  - Performance of Traction Units Driver's brake valves (nominal and degraded mode)







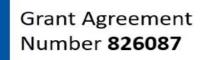


### Terminology

- Following results employs some symbols to shorten the notation:
  - 1T (2T, ...) means that the train is made of 1 (2, ...) sub-trains, i.e. 1T is a classic train
  - SW means that there is one loco at the end of the train
  - P, GP, LL, G are the brake modes according to the UIC 421; GH is a brake mode G but applied to almost uniformly loaded wagons (trains have mass between 2501 and 5500 ton)
    - Above brake modes define the hauled mass of the sub trains, implicitly; e.g. a GP sub-train has an hauled mass between 1201 and 1600 ton.
    - Please consider that, in many cases, the overall train runs in brake position G, but there are some simulations where the brake modes of the sub-trains are kept when they are connected.
  - EB is Emergency Braking, T-EB is full Traction up to 30 km/h followed by an EB. Speed is 30 km/h.
- All results refer to GSM-R and in Nominal mode
- Labels "derailment" and "disruption" have the meaning of "virtual derailment" and "virtual disruption", since the simulations refer to virtual trains statistically generated from real trains.

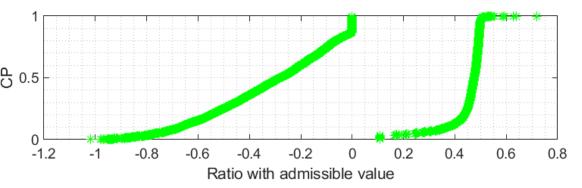


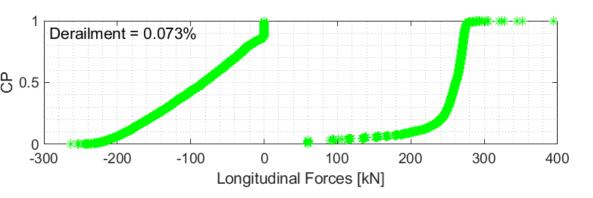




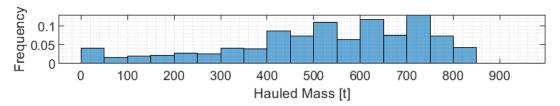


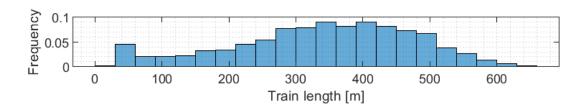
1T with loco BR187 having length 0-740, and mass 0-800, running in P brake mode and performing a T-EB

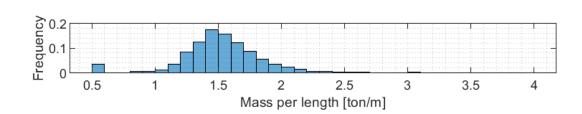




#### 1T with loco BR187 having length 0-740, and mass 0-800, running in P brake mode and performing a T-EB







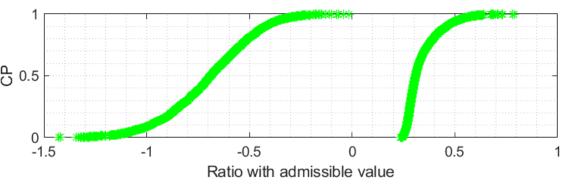


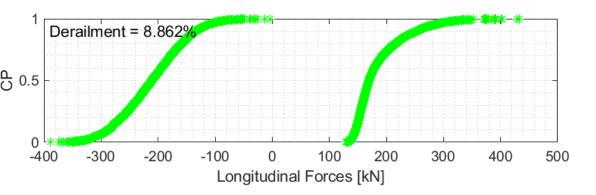
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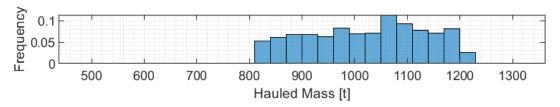


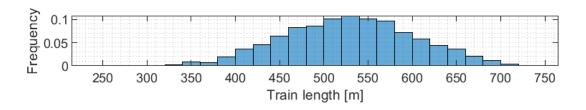
1T with loco BR187 having length 0-740, and mass 801-1200, running in GP brake mode and performing an EB

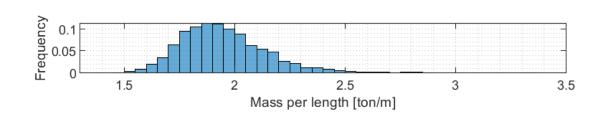




1T with loco BR187 having length 0-740, and mass 801-1200, running in GP brake mode and performing an EB







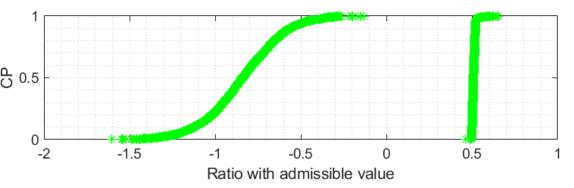


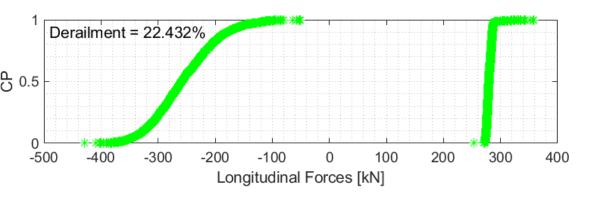
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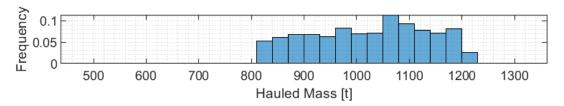


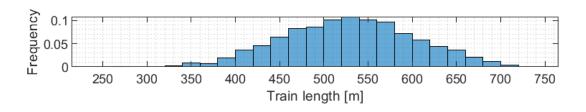
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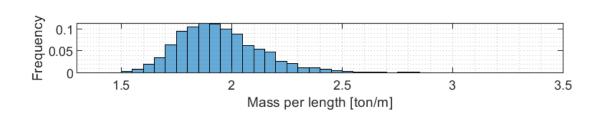




1T with loco BR187 having length 0-740, and mass 801-1200, running in GP brake mode and performing a T-EB







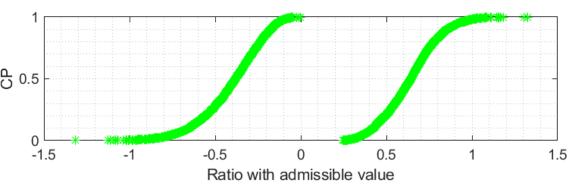


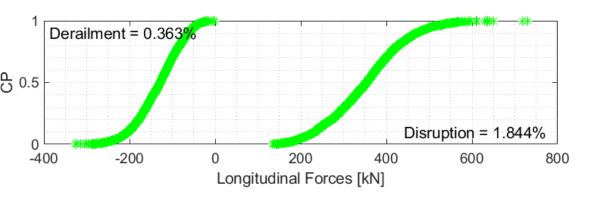
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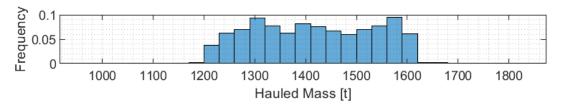


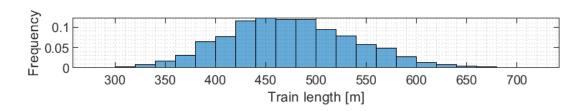
1T with loco BR187 having length 0-740, and mass 1201-1600, running in LL brake mode and performing an EB

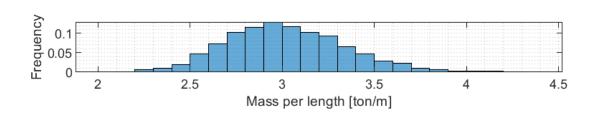




#### 1T with loco BR187 having length 0-740, and mass 1201-1600, running in LL brake mode and performing an EB







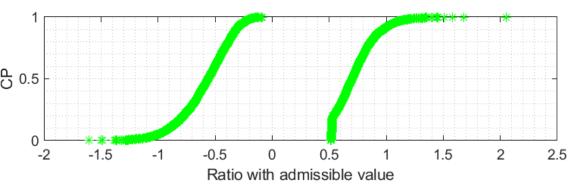


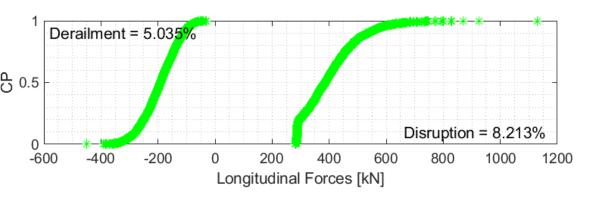
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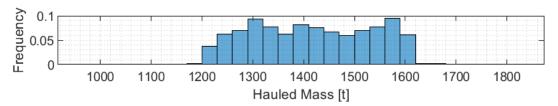


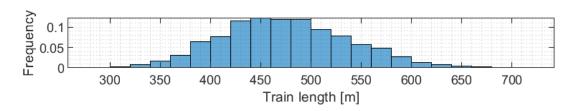
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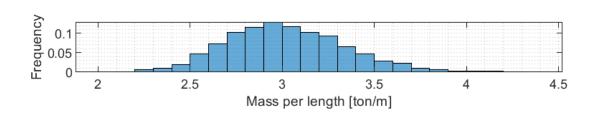




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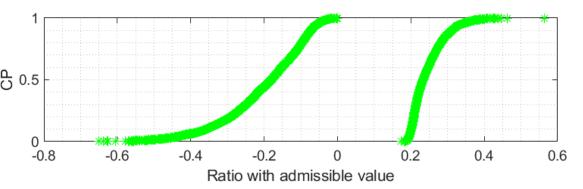


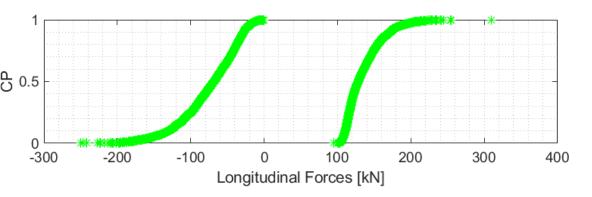
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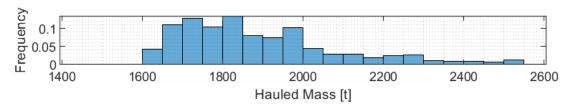


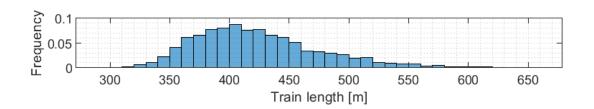
1T with loco BR187 having length 0-740, and mass 1601-2500, running in G brake mode and performing an EB

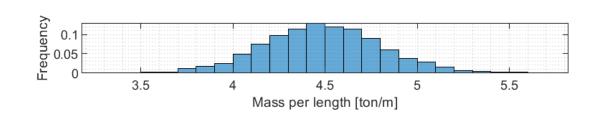




#### 1T with loco BR187 having length 0-740, and mass 1601-2500, running in G brake mode and performing an EB







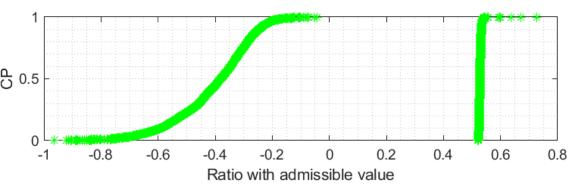


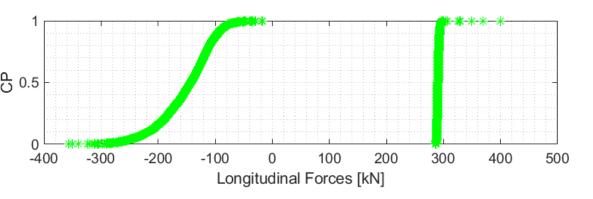
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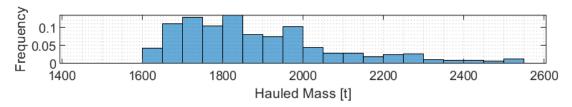


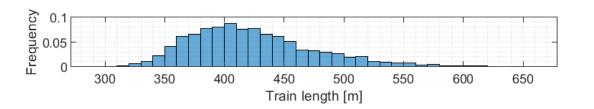
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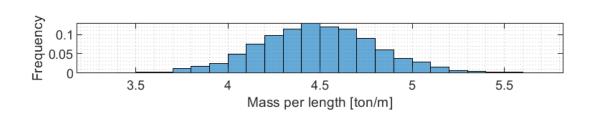




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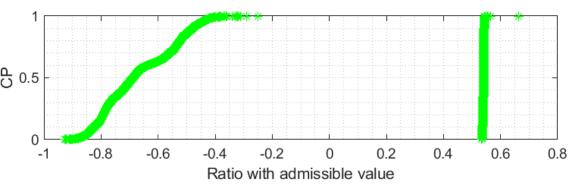


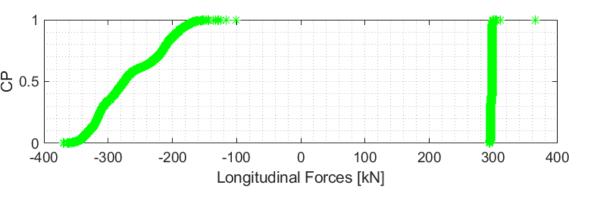
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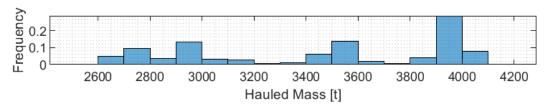


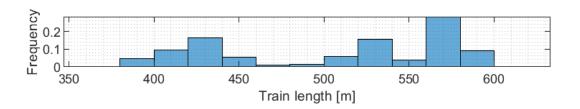
1T with loco BR187 having length 0-740, and mass 2501-4000, running in G brake mode and performing a T-EB

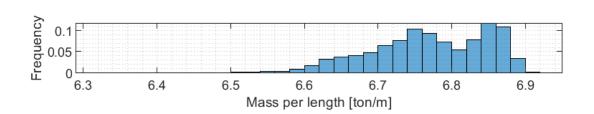




#### 1T with loco BR187 having length 0-740, and mass 2501-4000, running in G brake mode and performing a T-EB







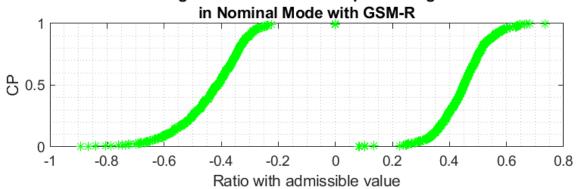


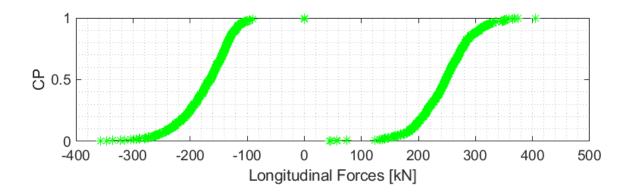
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1T-SW with loco BR187
having length 0-500, and mass 2501-5500,
running in P brake mode and performing an EB





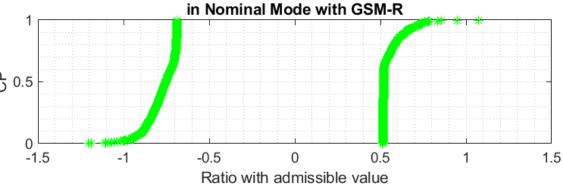


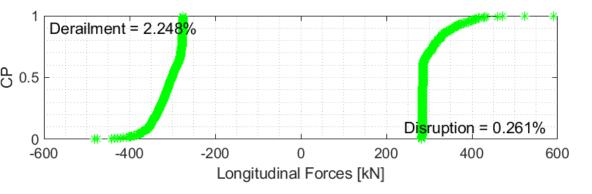
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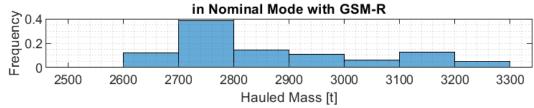


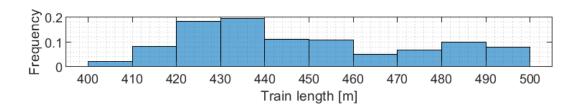
1T-SW with loco BR187 having length 0-500, and mass 2501-5500, running in P brake mode and performing a T-EB

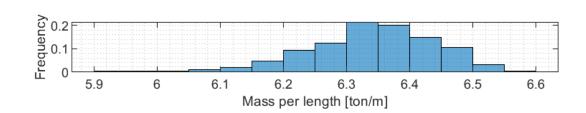




### 1T-SW with loco BR187 having length 0-500, and mass 2501-5500, running in P brake mode and performing a T-EB







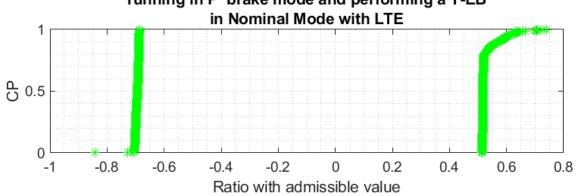


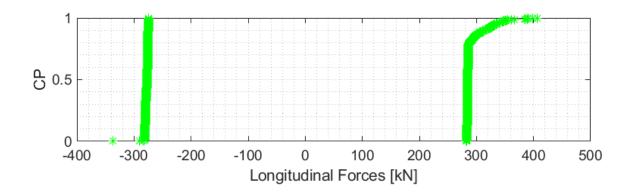
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1T-SW with loco BR187 having length 0-500, and mass 2501-5500, running in P brake mode and performing a T-EB





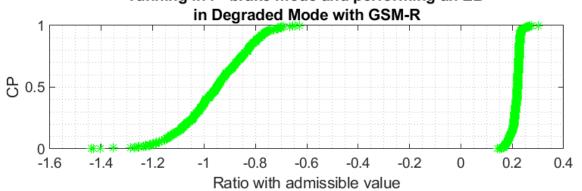


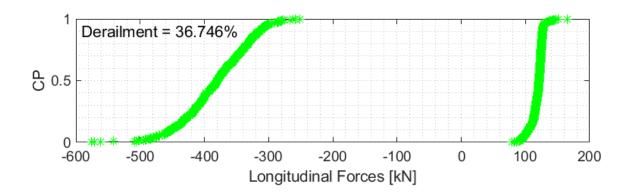
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1T-SW with loco BR187
having length 0-500, and mass 2501-5500,
running in P brake mode and performing an EB
in Degraded Mode with GSM-R





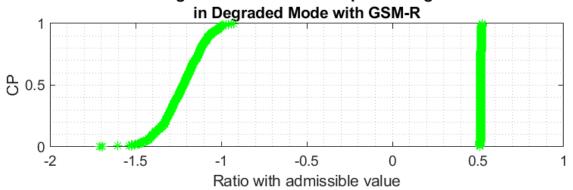


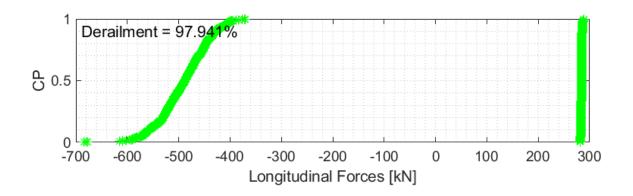
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1T-SW with loco BR187
having length 0-500, and mass 2501-5500,
running in P brake mode and performing a T-EB





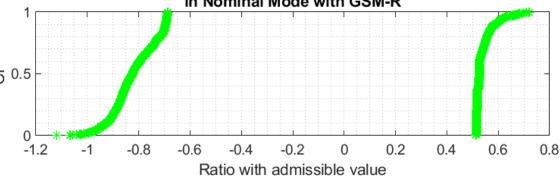


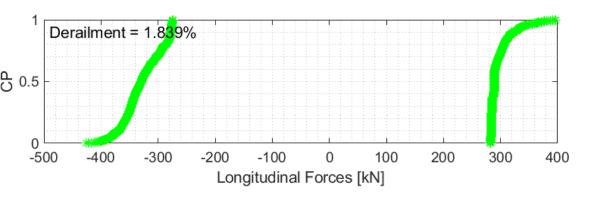
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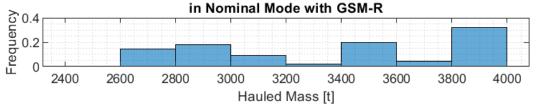


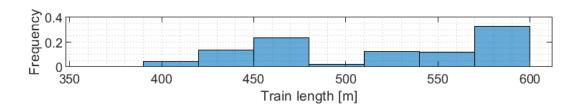
1T-SW with loco BR187
having length 0-590, and mass 2501-5500,
running in GP brake mode and performing a T-EB
in Nominal Mode with GSM-R

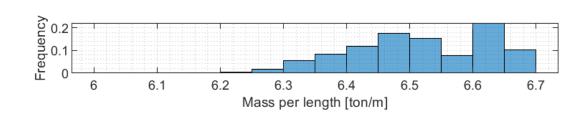




## 1T-SW with loco BR187 having length 0-590, and mass 2501-5500, running in GP brake mode and performing a T-EB in Nominal Mode with GSM-R







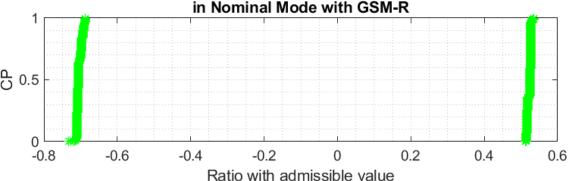


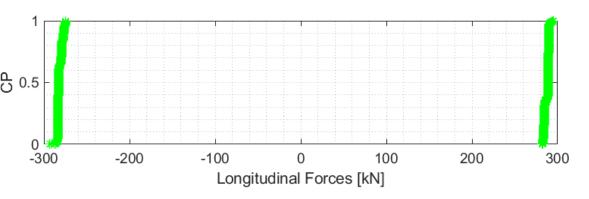
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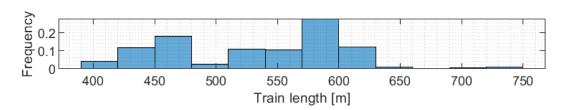


1T-SW with loco BR187
having length 0-740, and mass 2501-5500,
running in G brake mode and performing a T-EB
in Nominal Mode with GSM-R

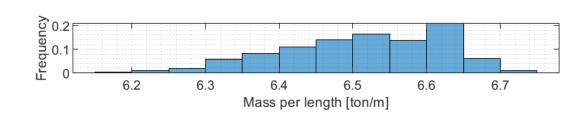




# 1T-SW with loco BR187 having length 0-740, and mass 2501-5500, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R



Hauled Mass [t]



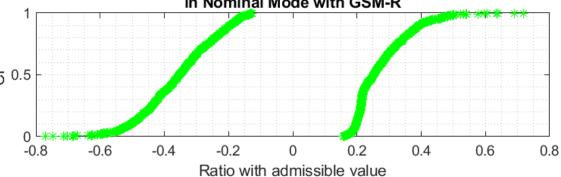


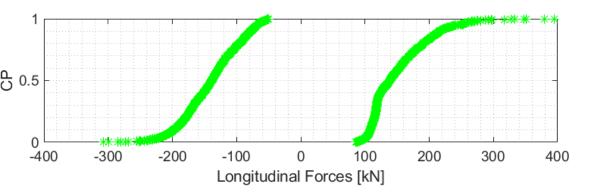
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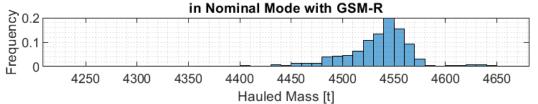


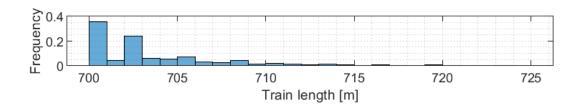
1T-SW with loco BR187
having length 700-740, and mass 4000-4500,
running in G brake mode and performing an EB
in Nominal Mode with GSM-R

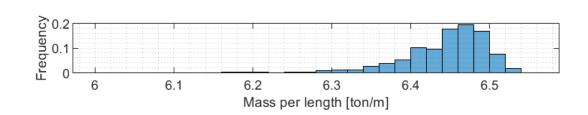




## 1T-SW with loco BR187 having length 700-740, and mass 4000-4500, running in G brake mode and performing an EB in Nominal Mode with GSM-R







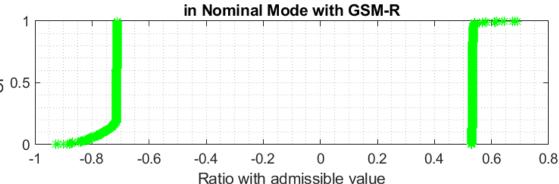


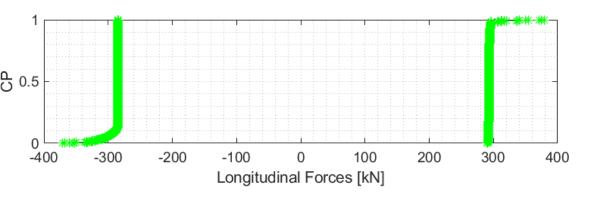
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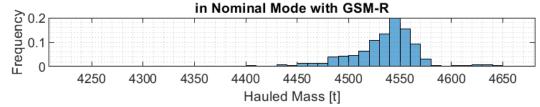


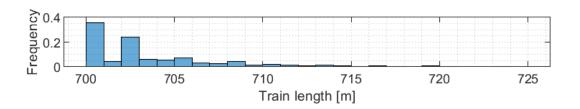
1T-SW with loco BR187
having length 700-740, and mass 4000-4500,
running in G brake mode and performing a T-EB

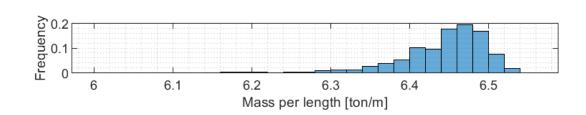




1T-SW with loco BR187
having length 700-740, and mass 4000-4500,
running in G brake mode and performing a T-EB
in Nominal Mode with GSM-R







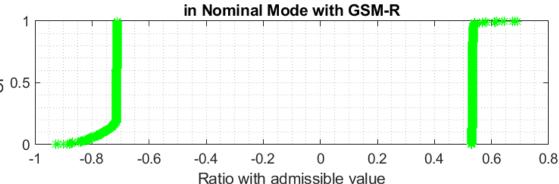


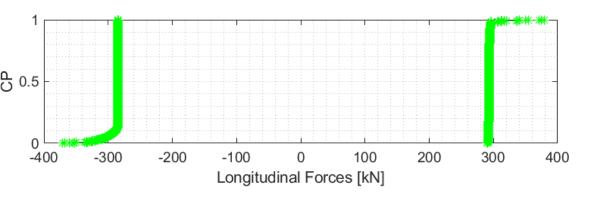
MAke RAil The HOpe for protecting Nature 2 future OPERATION



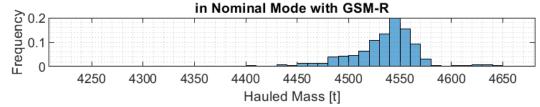


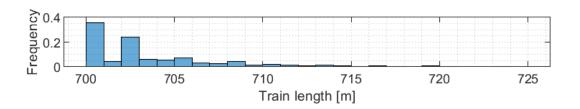
1T-SW with loco BR187
having length 700-740, and mass 4000-4500,
running in G brake mode and performing a T-EB

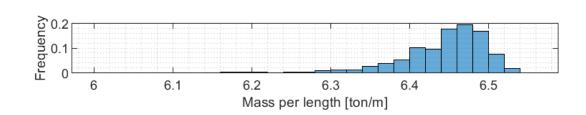




1T-SW with loco BR187
having length 700-740, and mass 4000-4500,
running in G brake mode and performing a T-EB
in Nominal Mode with GSM-R







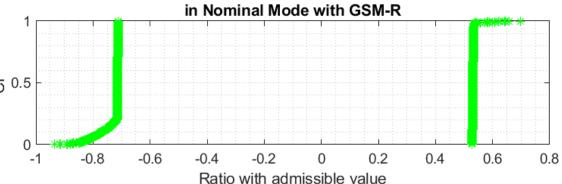


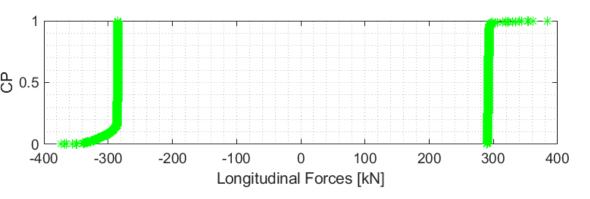
MAke RAil The HOpe for protecting Nature 2 future OPERATION



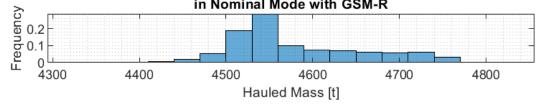


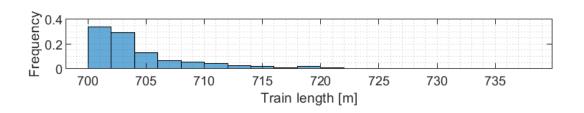
1T-SW with loco BR187 having length 700-740, and mass 4250-4750, running in G brake mode and performing a T-EB

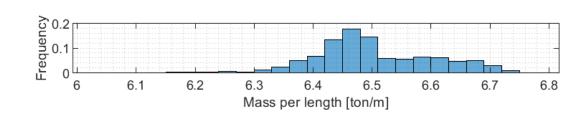




# 1T-SW with loco BR187 having length 700-740, and mass 4250-4750, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R









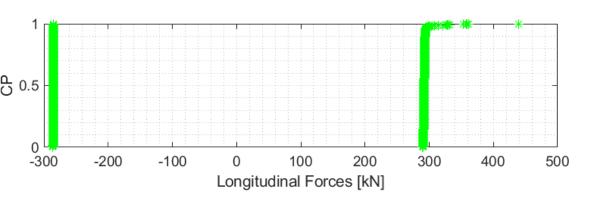
MAke RAil The HOpe for protecting Nature 2 future OPERATION

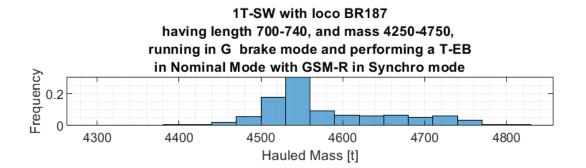


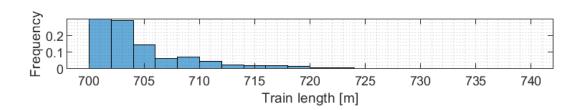


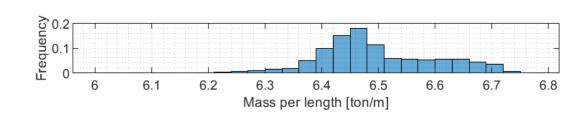
1T-SW with loco BR187
having length 700-740, and mass 4250-4750,
running in G brake mode and performing a T-EB
in Nominal Mode with GSM-R in Synchro mode

Ratio with admissible value











MAke RAil The HOpe for protecting Nature 2 future OPERATION

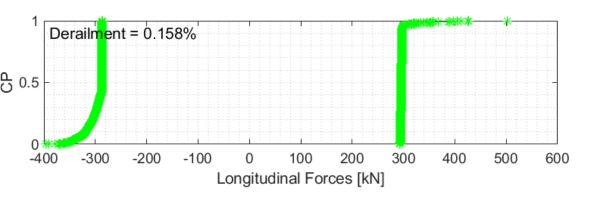




1T-SW with loco BR187
having length 800-840, and mass 5000-5500,
running in G brake mode and performing a T-EB
in Nominal Mode with GSM-R

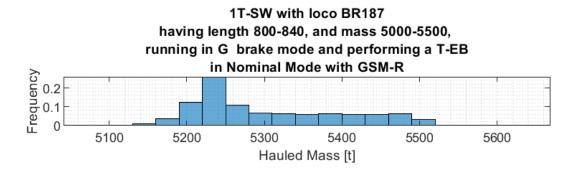
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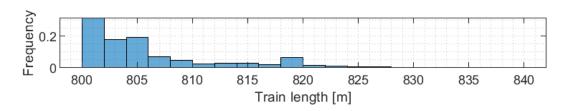
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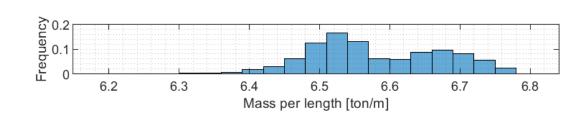


Ratio with admissible value

-0.5









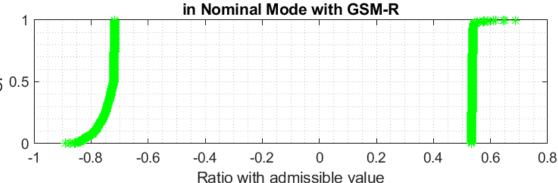
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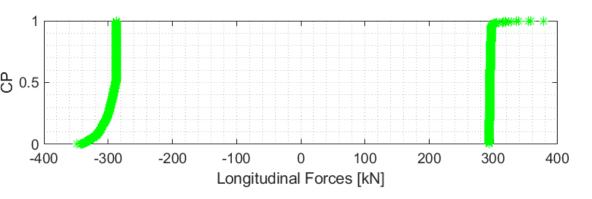
MAke RAil The HOpe for protecting Nature 2 future OPERATION



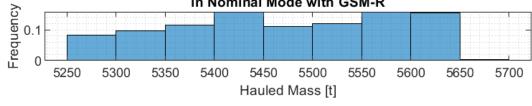


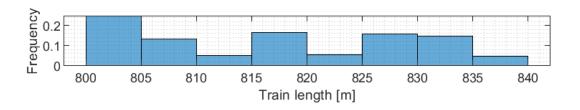
1T-SW with loco BR187
having length 800-840, and mass 5250-5750,
running in G brake mode and performing a T-EB

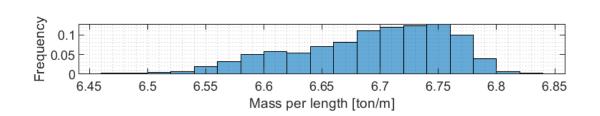




# 1T-SW with loco BR187 having length 800-840, and mass 5250-5750, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R







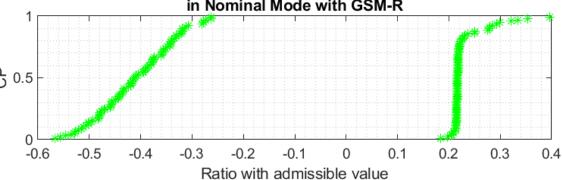


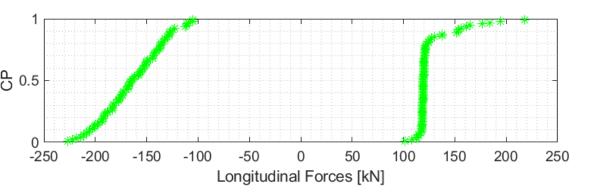
MAke RAil The HOpe for protecting Nature 2 future OPERATION



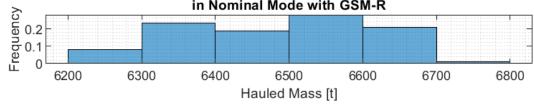


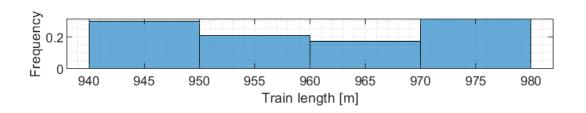
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Nominal Mode with GSM-R

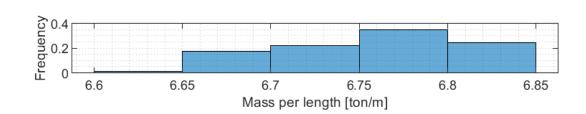




## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing an EB in Nominal Mode with GSM-R







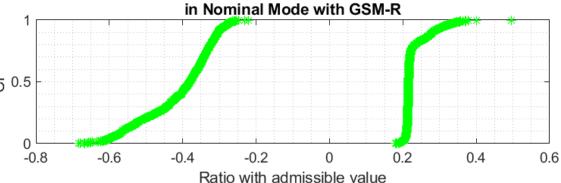


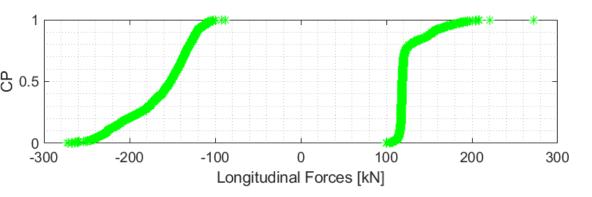
MAke RAil The HOpe for protecting Nature 2 future OPERATION



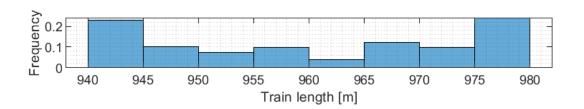


1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB

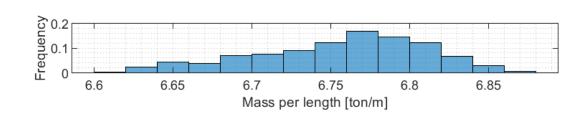




# 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing an EB in Nominal Mode with GSM-R 0.1 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750



Hauled Mass [t]



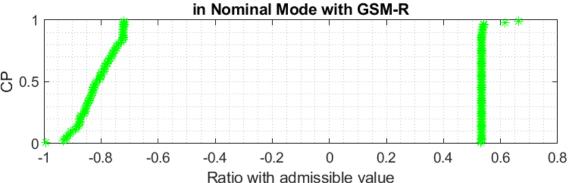


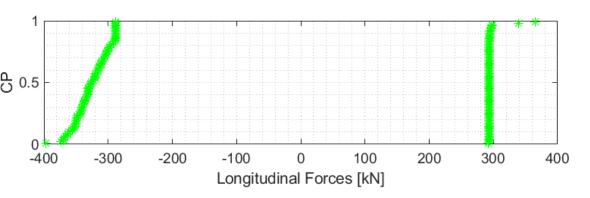
MAke RAil The HOpe for protecting Nature 2 future OPERATION



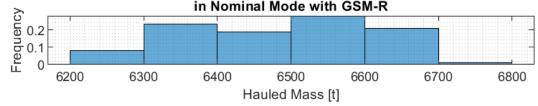


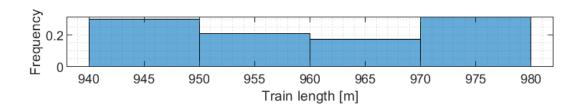
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing a T-EB
in Nominal Mode with GSM-R

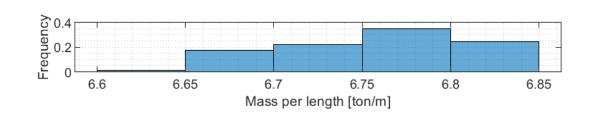




## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R







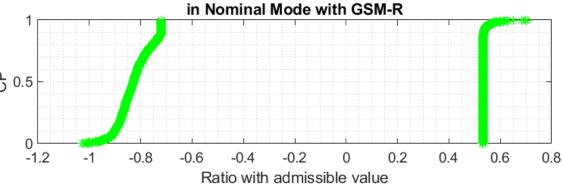


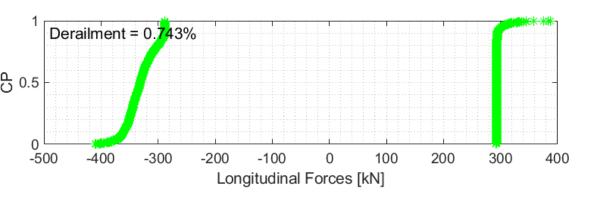
MAke RAil The HOpe for protecting Nature 2 future OPERATION



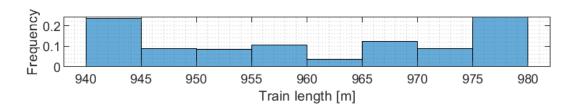


1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing a T-EB

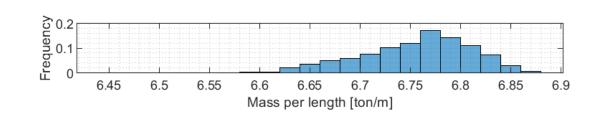




# 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R 0.1 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750



Hauled Mass [t]



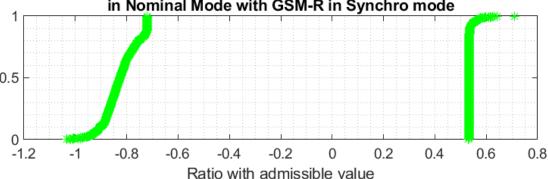


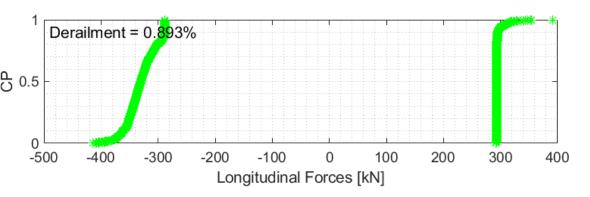
MAke RAil The HOpe for protecting Nature 2 future OPERATION

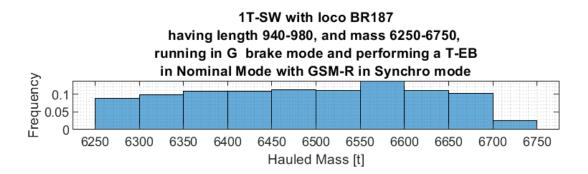


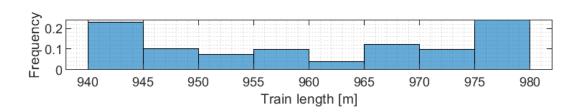


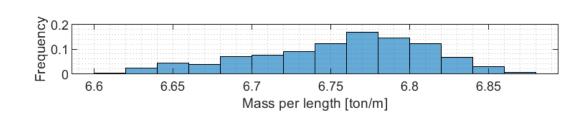
1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode











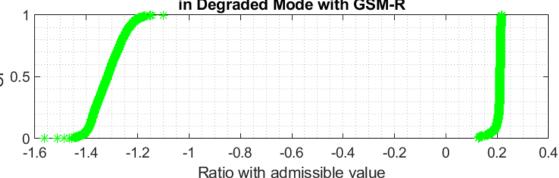


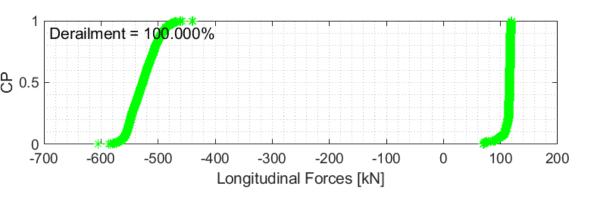
MAke RAil The HOpe for protecting Nature 2 future OPERATION



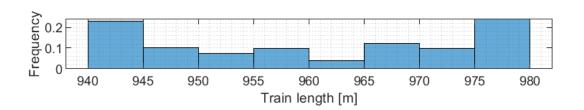


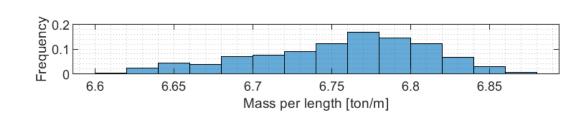
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Degraded Mode with GSM-R





# 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing an EB in Degraded Mode with GSM-R 0.1 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 Hauled Mass [t]





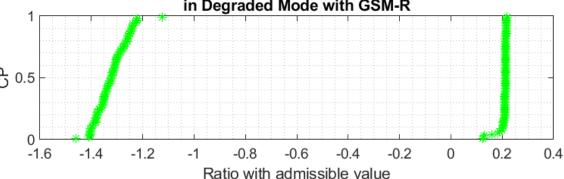


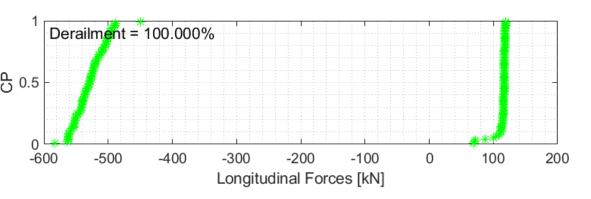
MAke RAil The HOpe for protecting Nature 2 future OPERATION





1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Degraded Mode with GSM-R



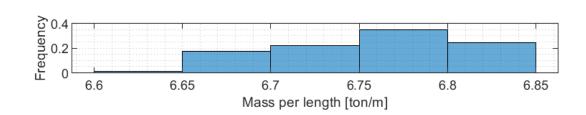


## having length 940-980, and mass 6250-6750, running in G brake mode and performing an EB in Degraded Mode with GSM-R 0.2 0.1 6200 6300 6400 6500 6600 6700 6800

1T-SW with loco BR187

Hauled Mass [t]





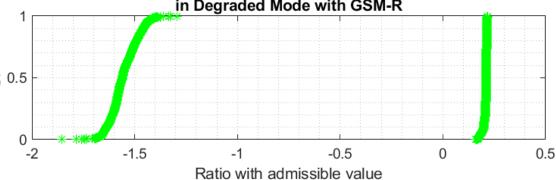


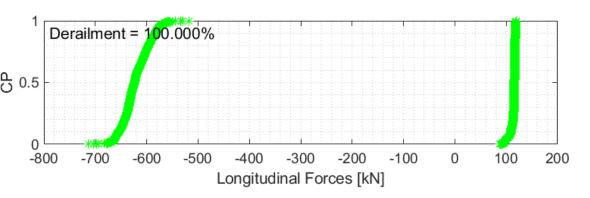
MAke RAil The HOpe for protecting Nature 2 future OPERATION



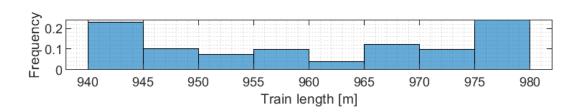


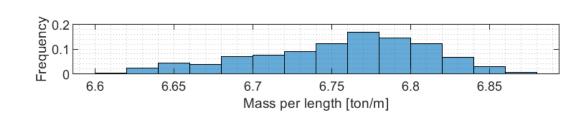
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Degraded Mode with GSM-R





## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing an EB in Degraded Mode with GSM-R 0.1 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 Hauled Mass [t]





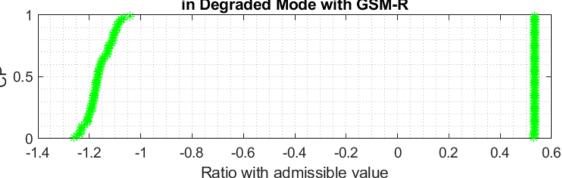


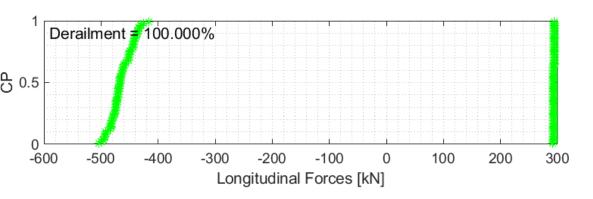
MAke RAil The HOpe for protecting Nature 2 future OPERATION



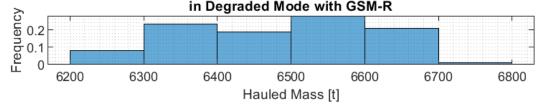


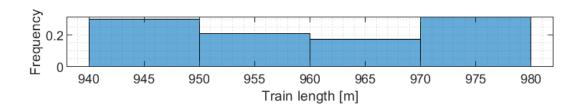
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing a T-EB
in Degraded Mode with GSM-R

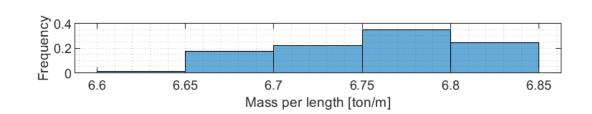




## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Degraded Mode with GSM-R







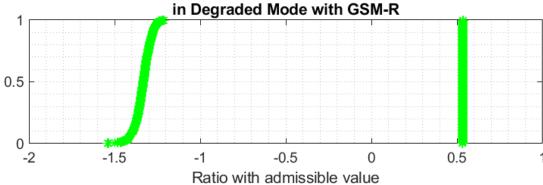


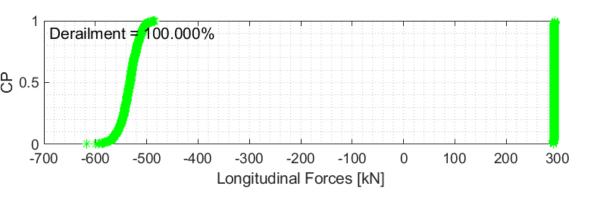
MAke RAil The HOpe for protecting Nature 2 future OPERATION



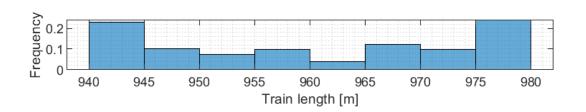


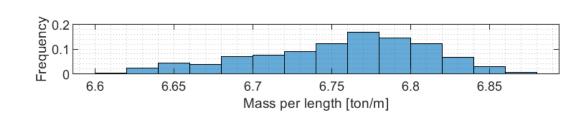
1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB





## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Degraded Mode with GSM-R 0.1 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 Hauled Mass [t]





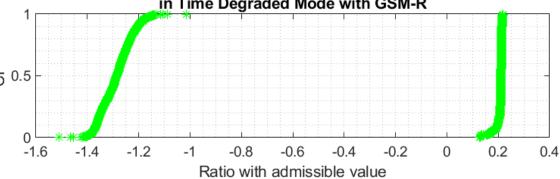


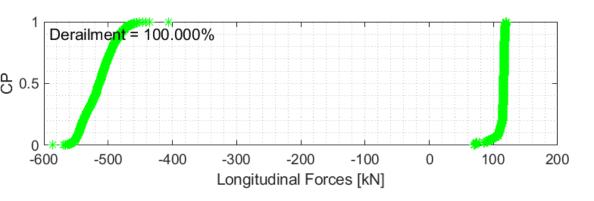
MAke RAil The HOpe for protecting Nature 2 future OPERATION

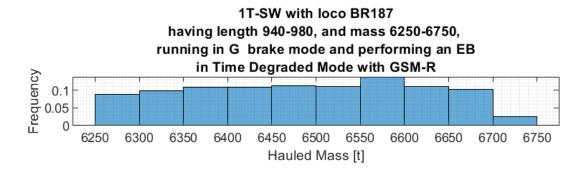


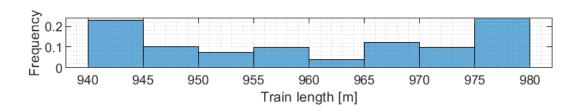


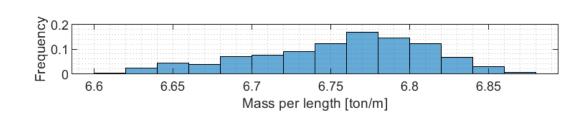
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Time Degraded Mode with GSM-R











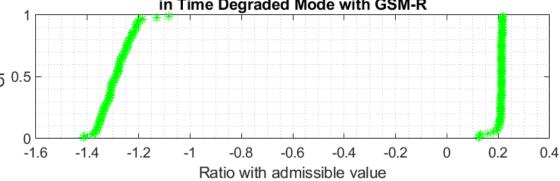


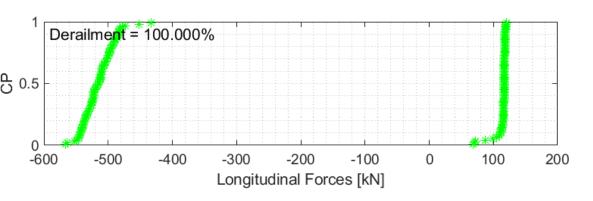
MAke RAil The HOpe for protecting Nature 2 future OPERATION



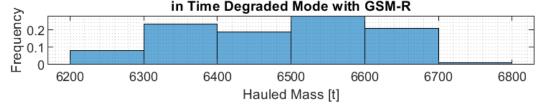


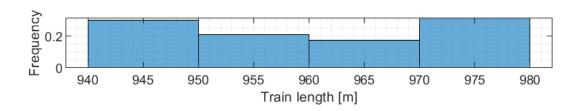
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Time Degraded Mode with GSM-R

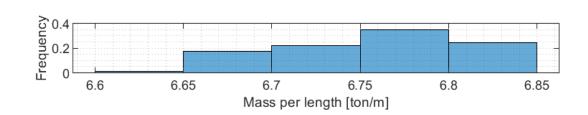




## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing an EB in Time Degraded Mode with GSM-R







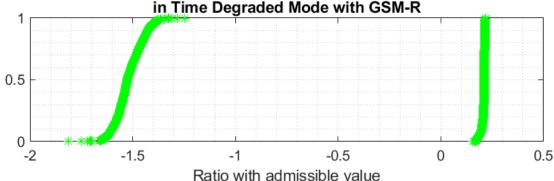


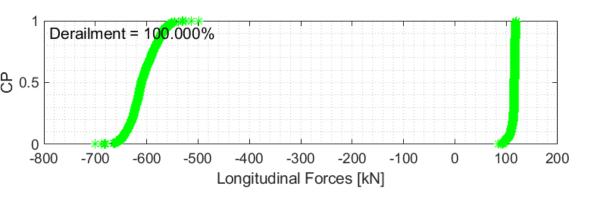
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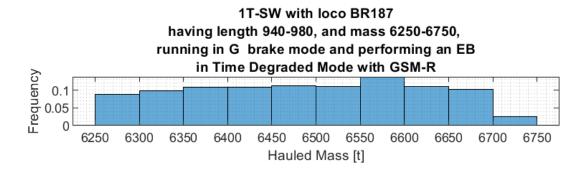


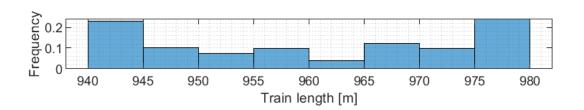


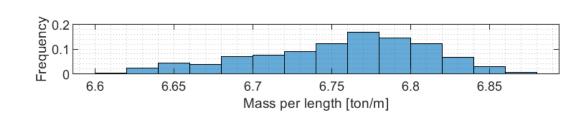
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing an EB
in Time Degraded Mode with GSM-R











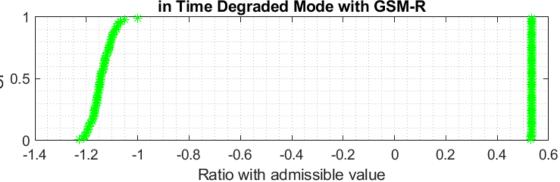


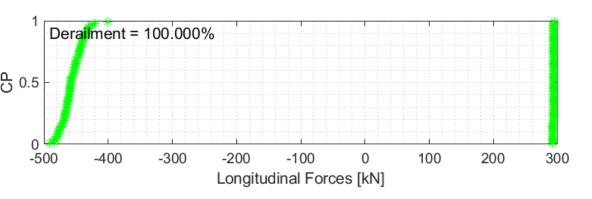
MAke RAil The HOpe for protecting Nature 2 future OPERATION



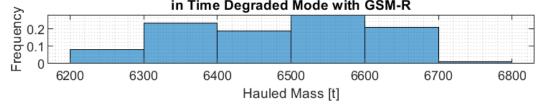


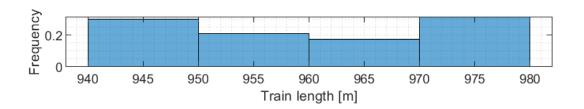
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing a T-EB
in Time Degraded Mode with GSM-R

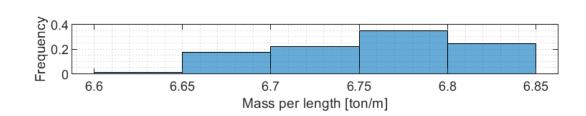




## 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Time Degraded Mode with GSM-R







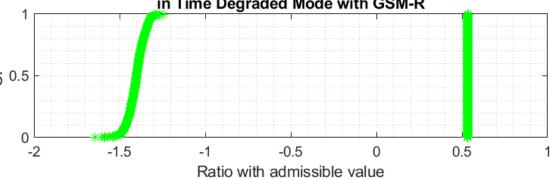


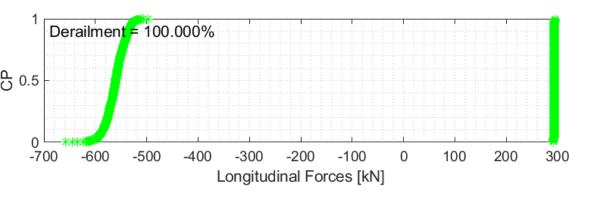
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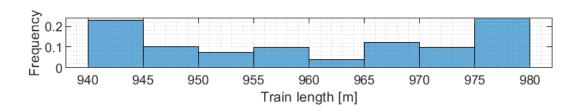


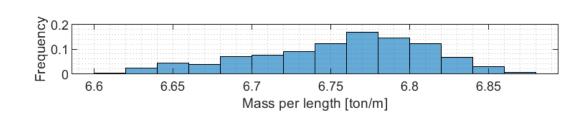
1T-SW with loco BR187
having length 940-980, and mass 6250-6750,
running in G brake mode and performing a T-EB
in Time Degraded Mode with GSM-R





# 1T-SW with loco BR187 having length 940-980, and mass 6250-6750, running in G brake mode and performing a T-EB in Time Degraded Mode with GSM-R 0.1 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 Hauled Mass [t]





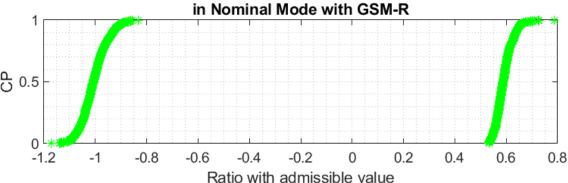


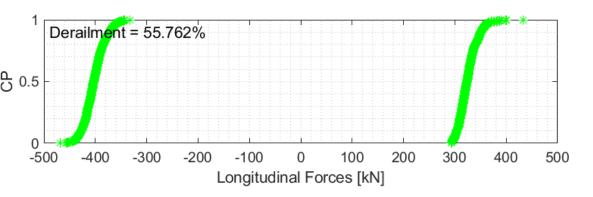
MAke RAil The HOpe for protecting Nature 2 future OPERATION



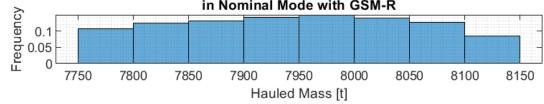


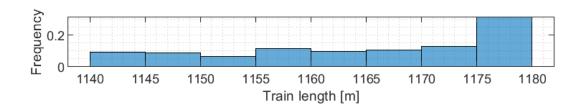
1T-SW with loco BR187 having length 1140-1180, and mass 7750-8250, running in G brake mode and performing a T-EB

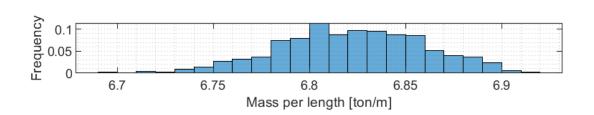




## 1T-SW with loco BR187 having length 1140-1180, and mass 7750-8250, running in G brake mode and performing a T-EB in Nominal Mode with GSM-R







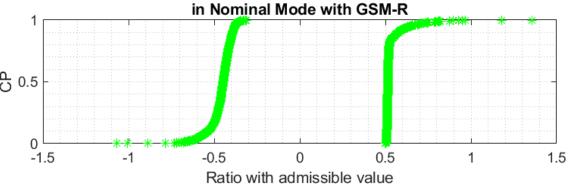


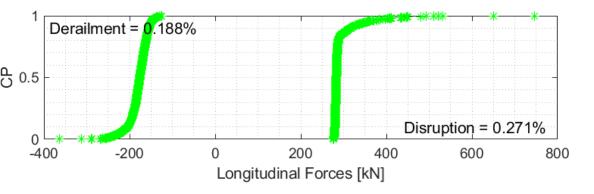
MAke RAil The HOpe for protecting Nature 2 future OPERATION



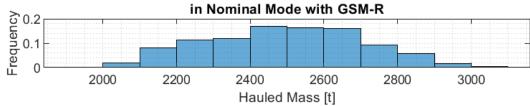


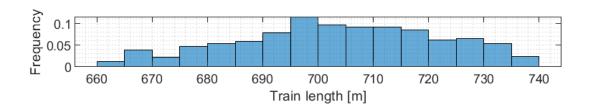
2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB

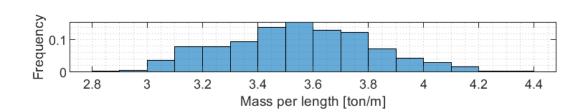




2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB







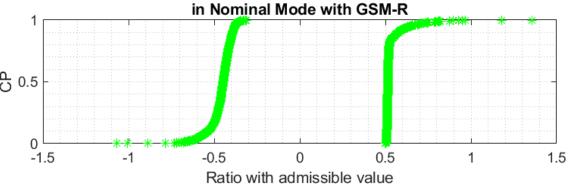


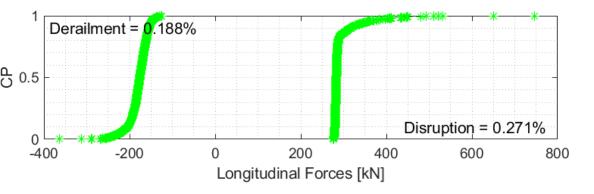
MAke RAil The HOpe for protecting Nature 2 future OPERATION



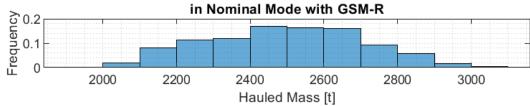


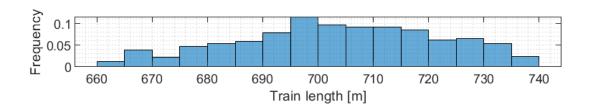
2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB

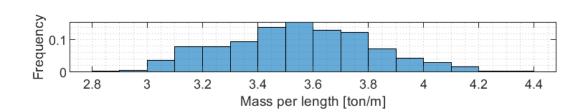




2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB







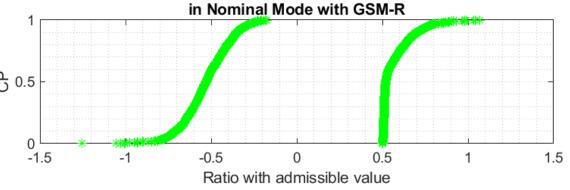


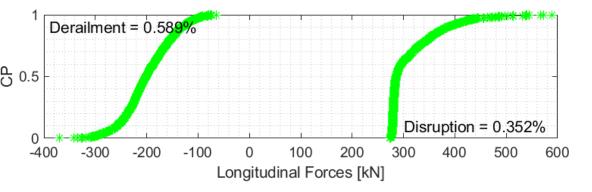
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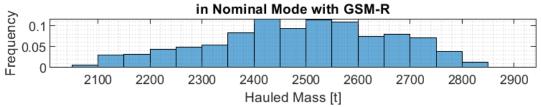


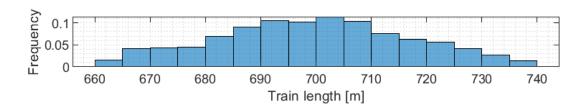
2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

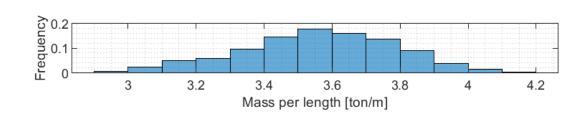




## 2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB







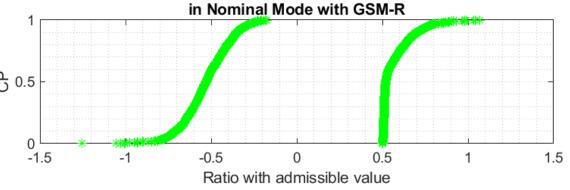


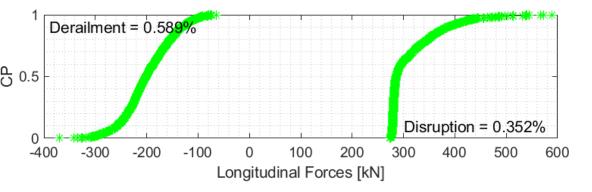
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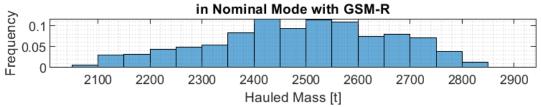


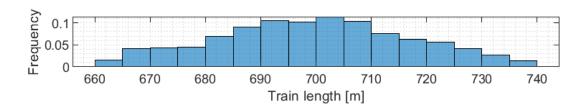
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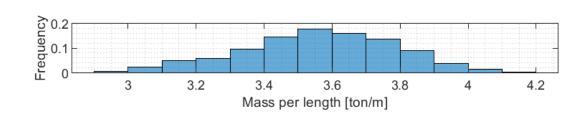




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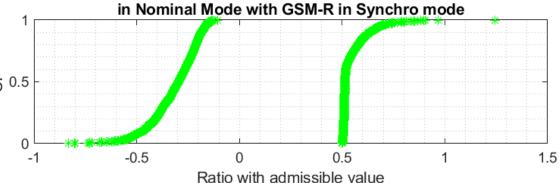


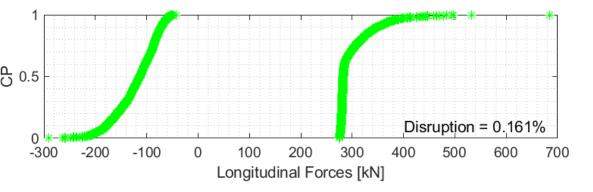
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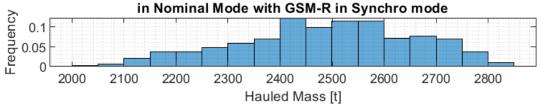


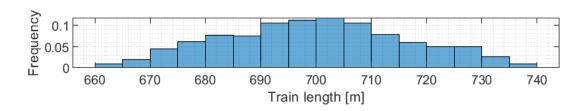
2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

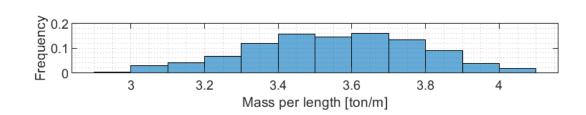




## 2T with loco BR187 formed by connection of 2 trains having lengths of 380-420, 280-320, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







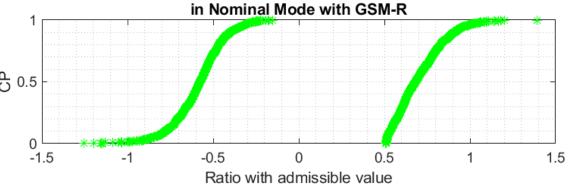


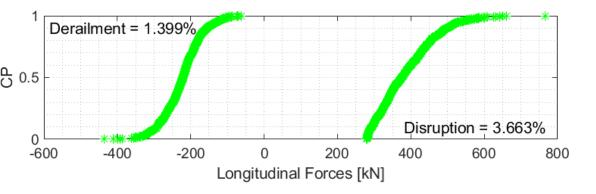
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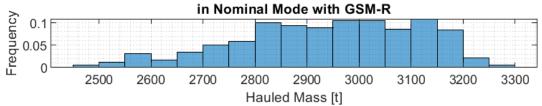


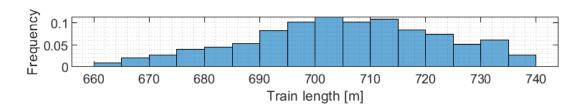
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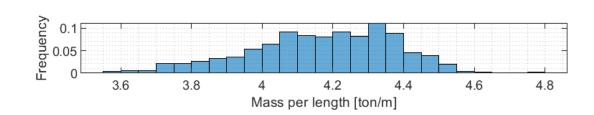




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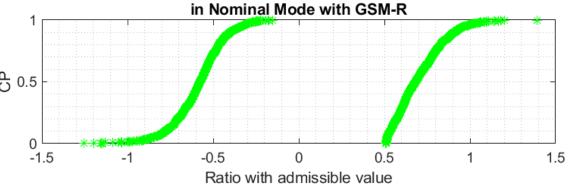


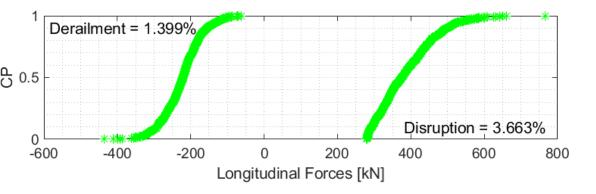
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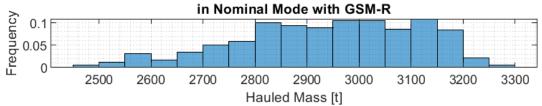


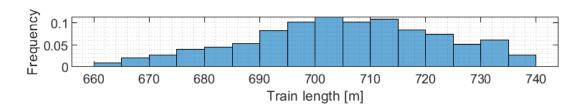
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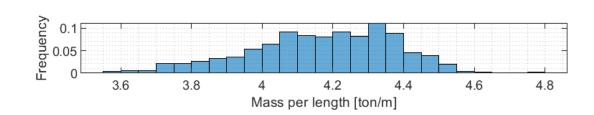




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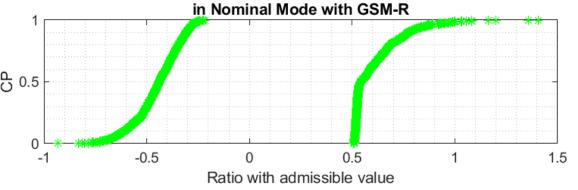


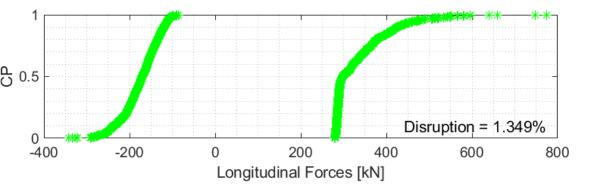
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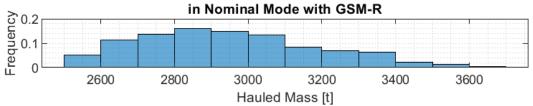


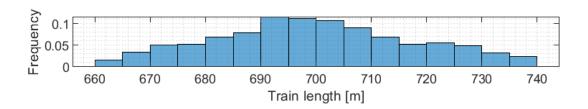
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

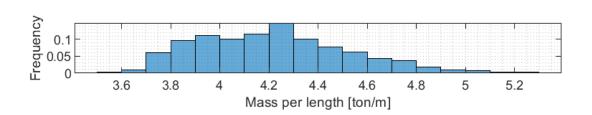




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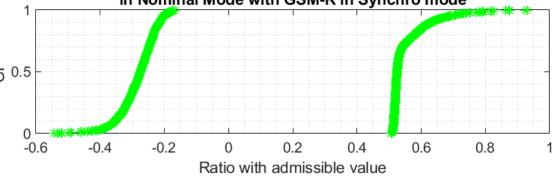


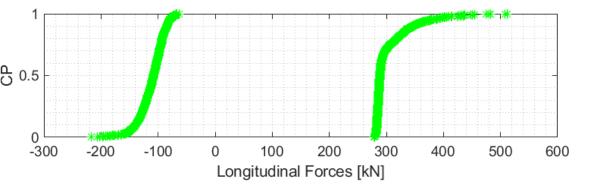
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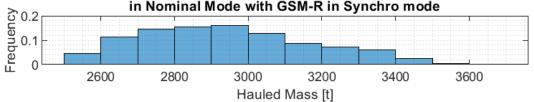


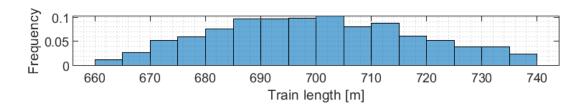
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

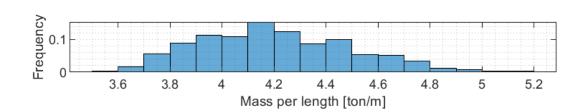




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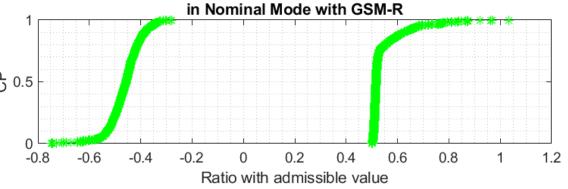


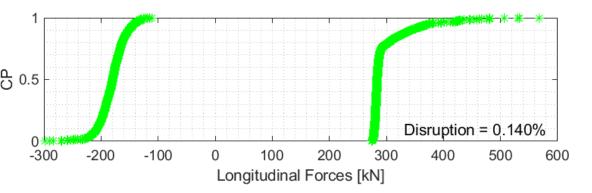
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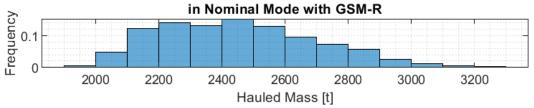


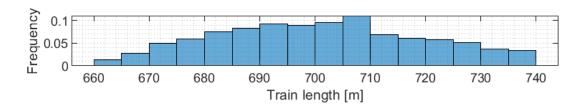
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB

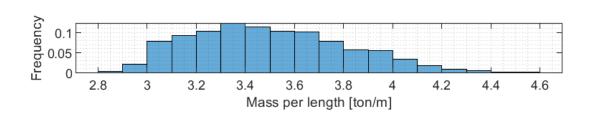




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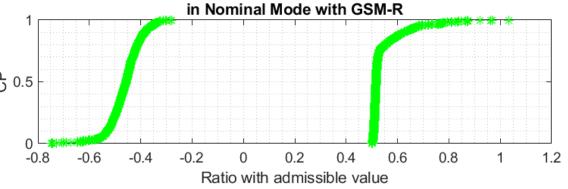


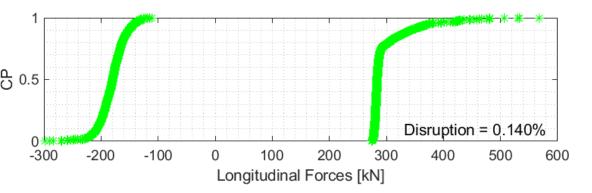
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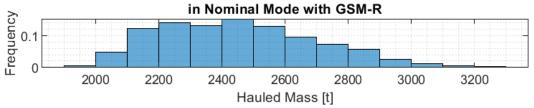


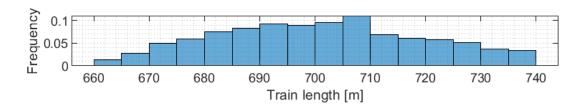
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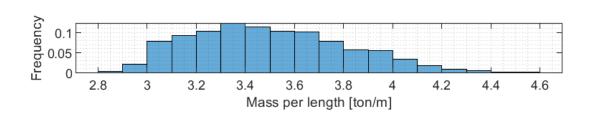




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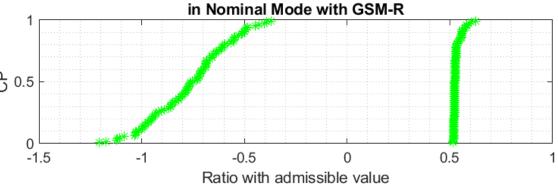


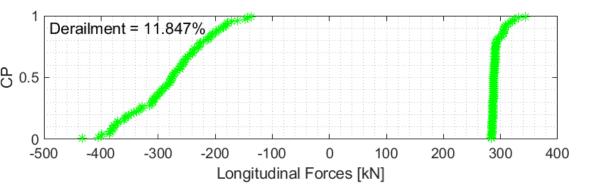
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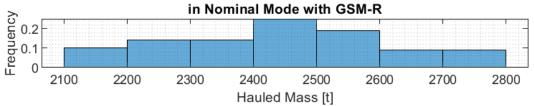


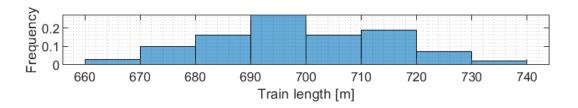
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

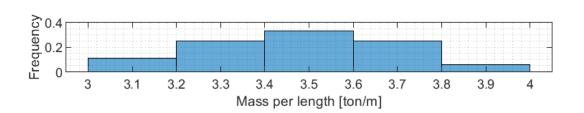




## 2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB







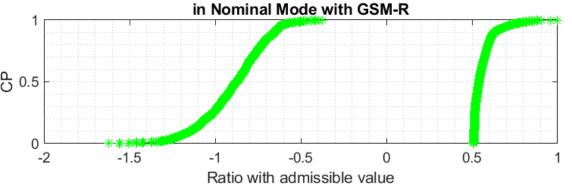


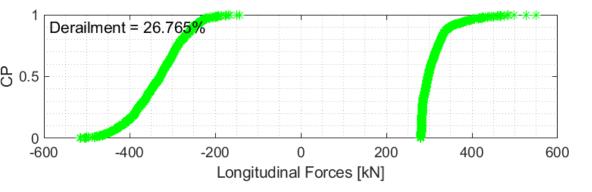
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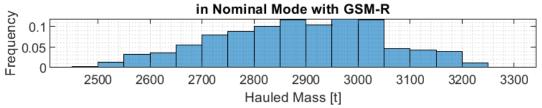


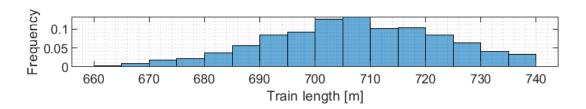
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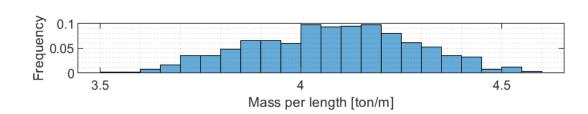




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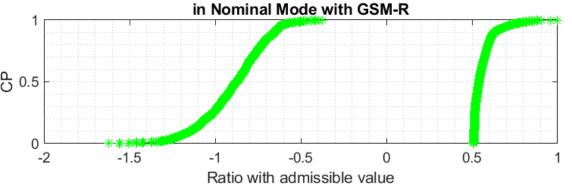


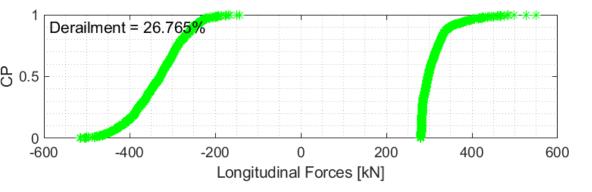
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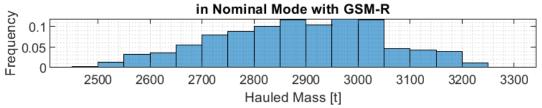


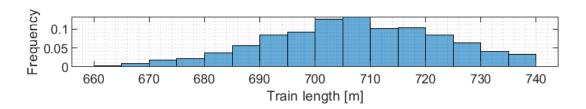
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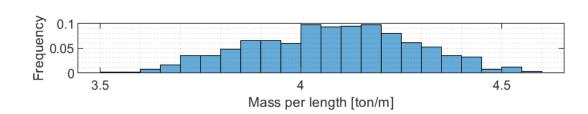




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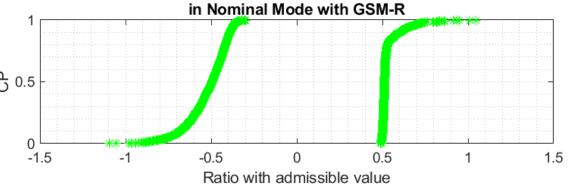


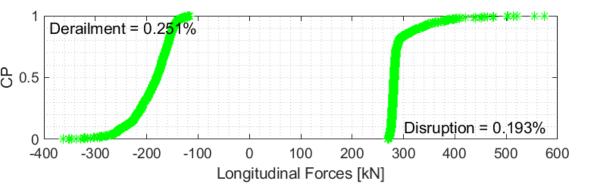
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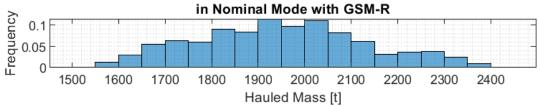


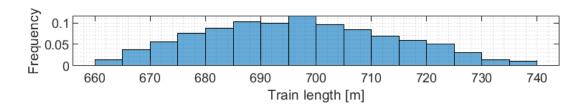
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB

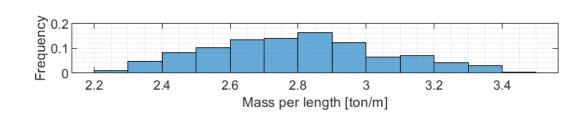




## 2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB







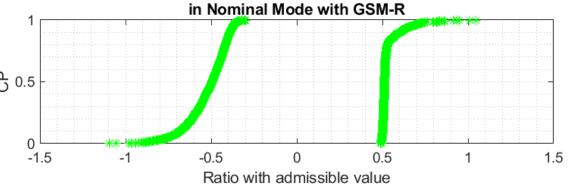


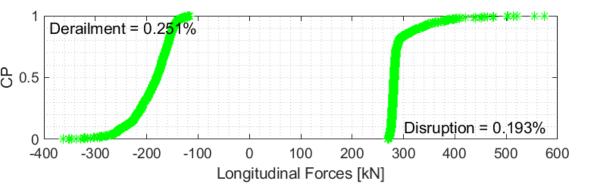
MAke RAil The HOpe for protecting Nature 2 future OPERATION



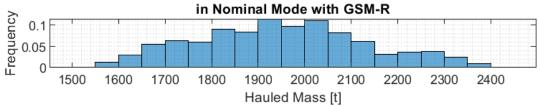


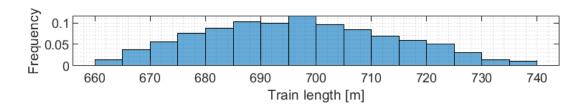
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB

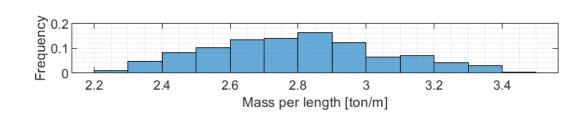




## 2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB







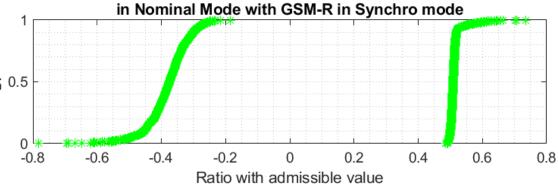


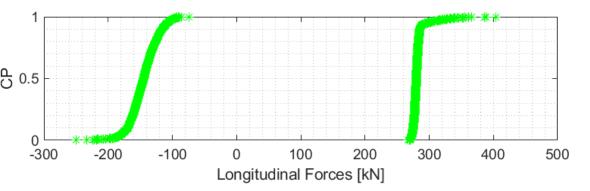
MAke RAil The HOpe for protecting Nature 2 future OPERATION



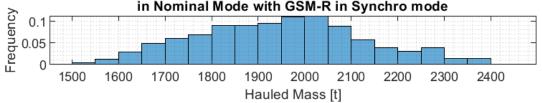


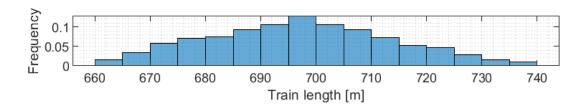
2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB

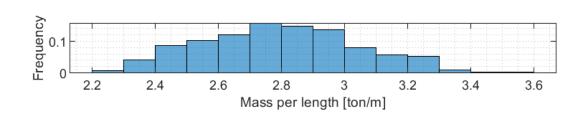




2T with loco BR187 formed by connection of 2 trains having lengths of 430-470, 230-270, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







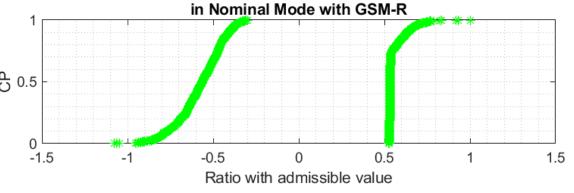


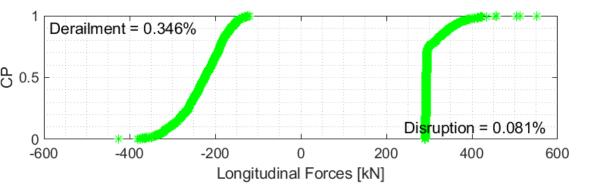
MAke RAil The HOpe for protecting Nature 2 future OPERATION



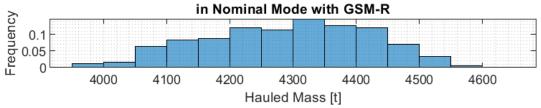


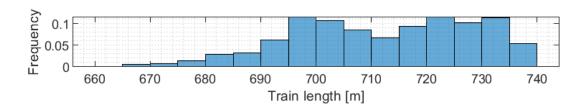
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 2750-3250, 1201-1600, running all in G brake mode and performing a T-EB

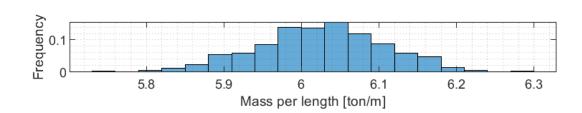




### 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 2750-3250, 1201-1600, running all in G brake mode and performing a T-EB







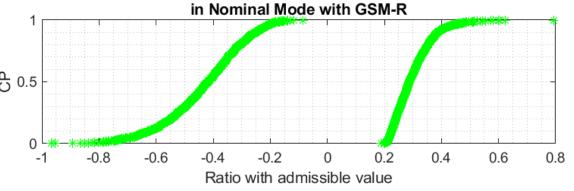


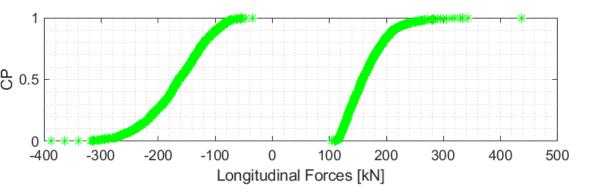
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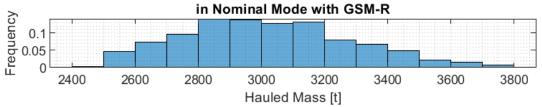


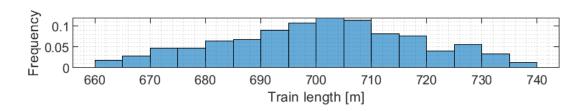
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

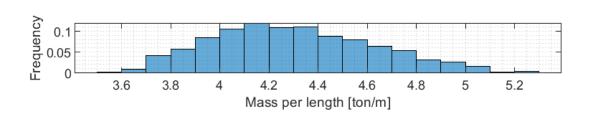




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







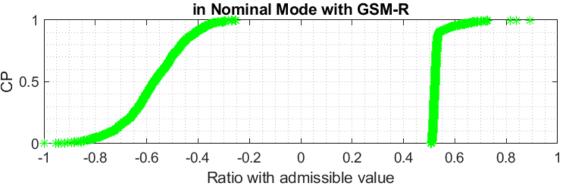


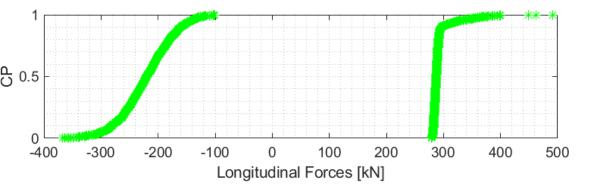
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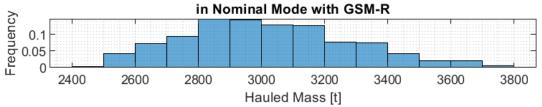


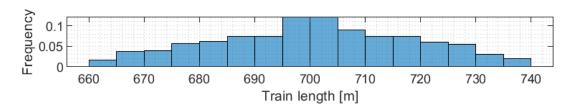
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

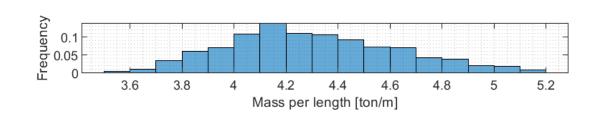




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







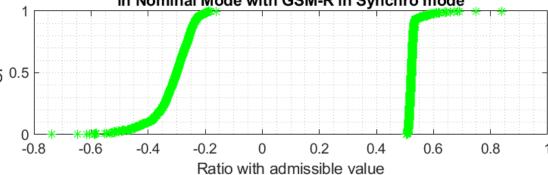


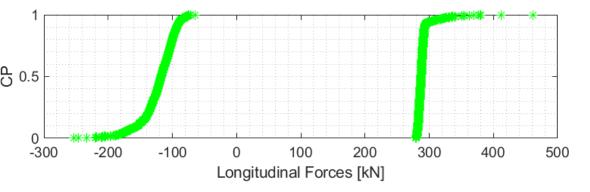
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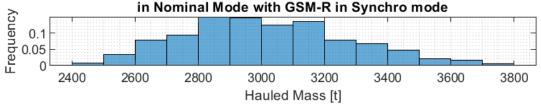


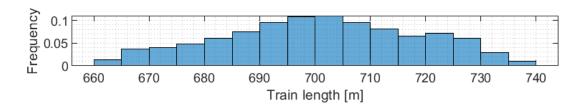
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

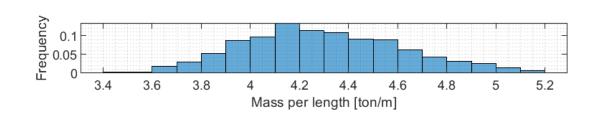




2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







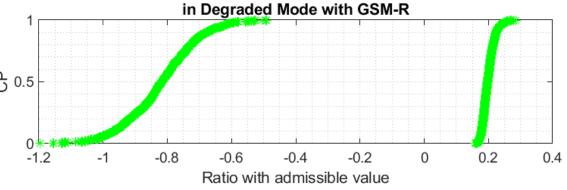


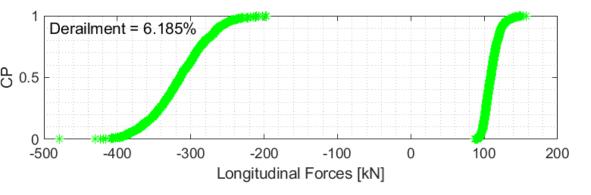
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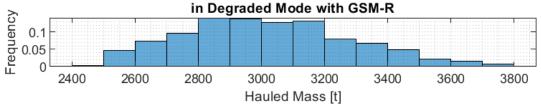


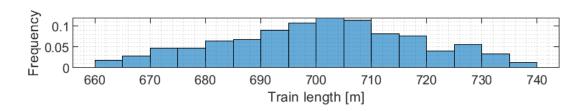
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

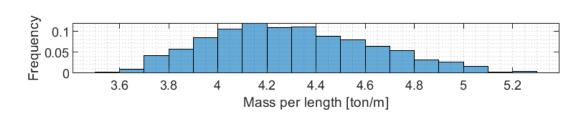




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







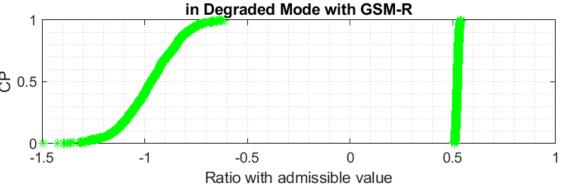


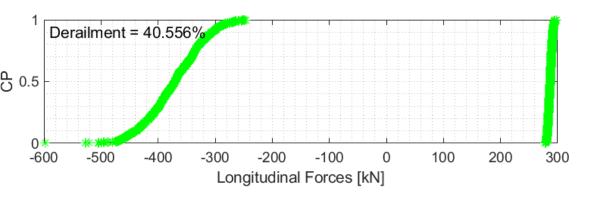
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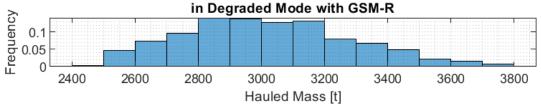


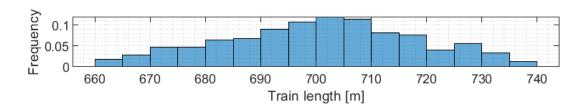
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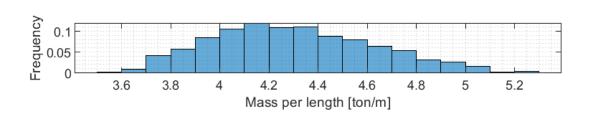




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







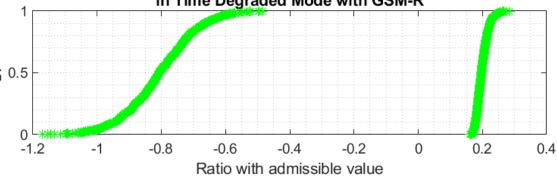


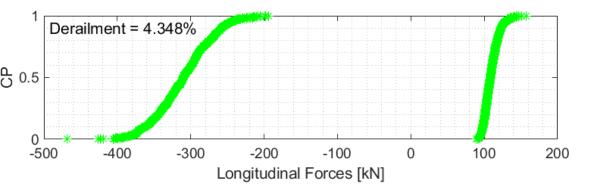
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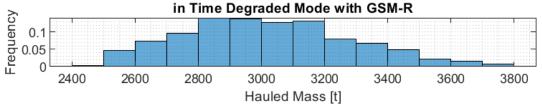


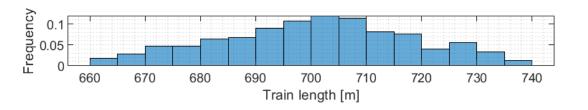
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R

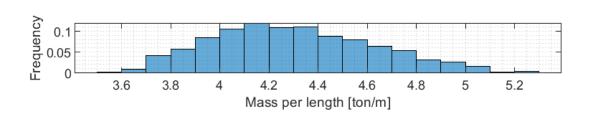




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







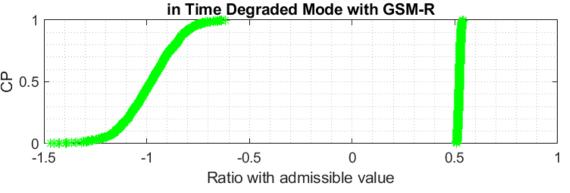


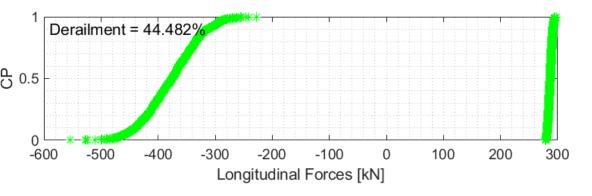
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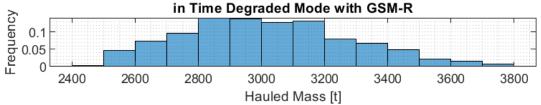


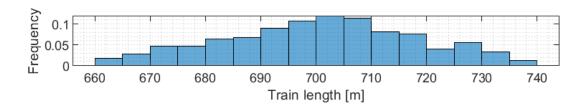
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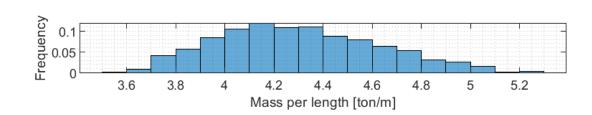




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







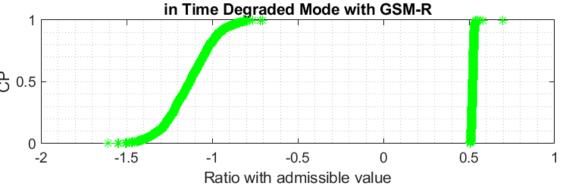


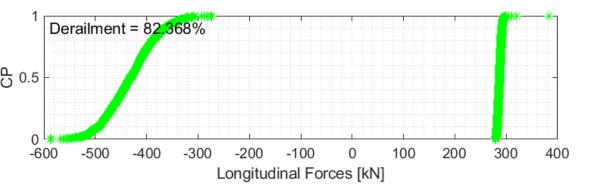
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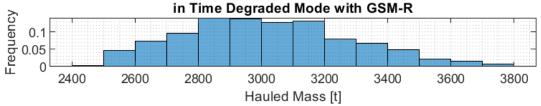


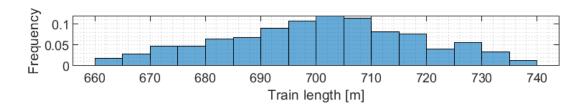
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

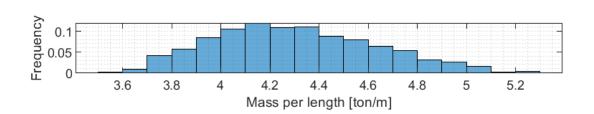




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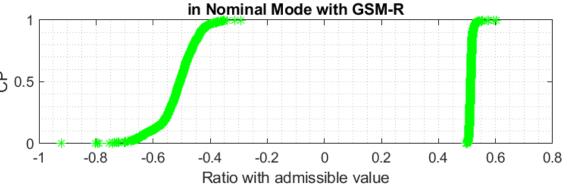


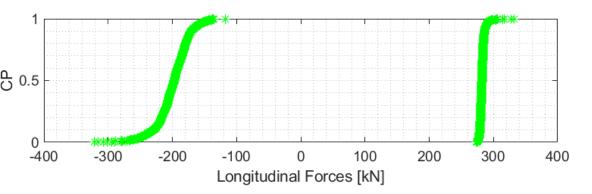
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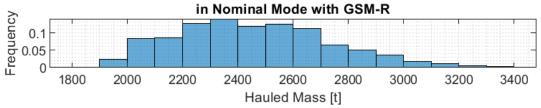


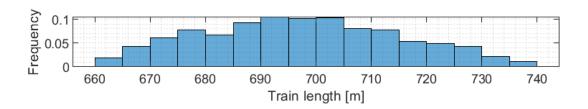
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB

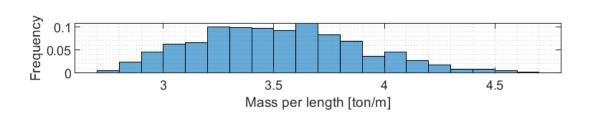




2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB







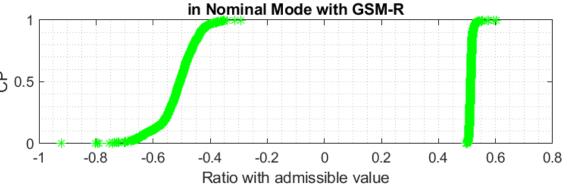


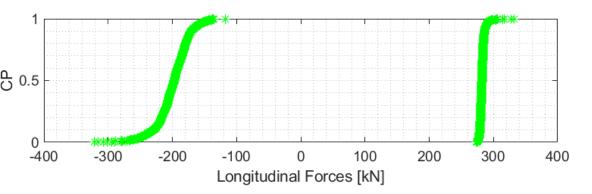
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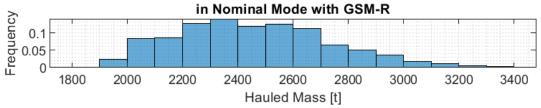


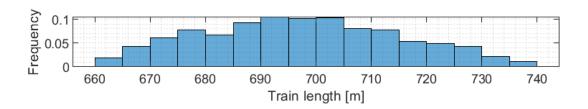
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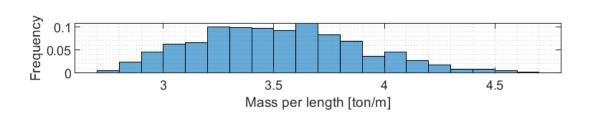




2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB







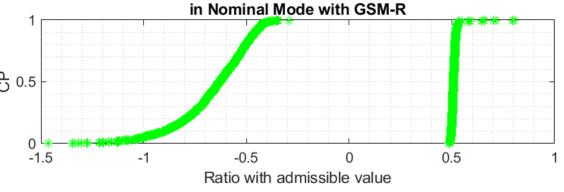


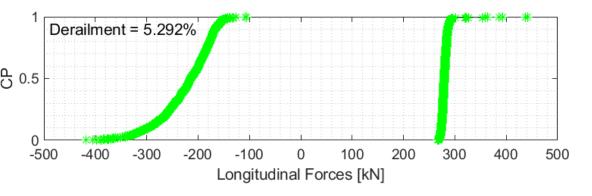
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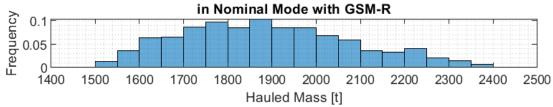


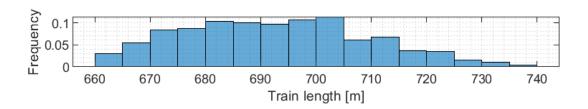
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB

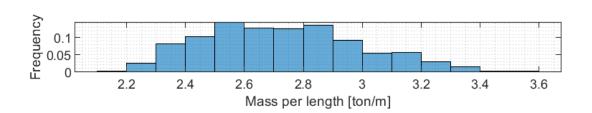




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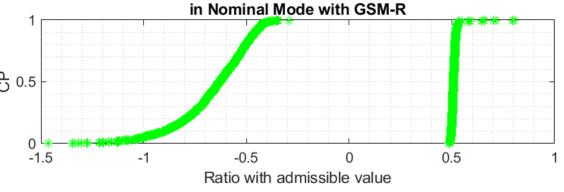


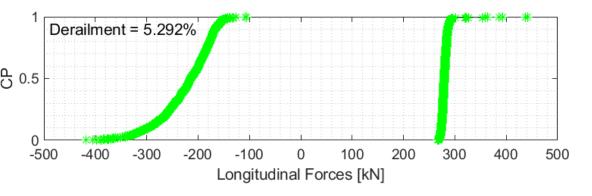
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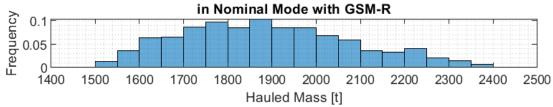


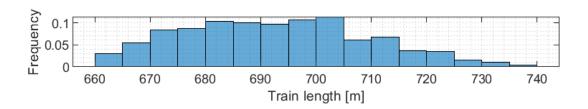
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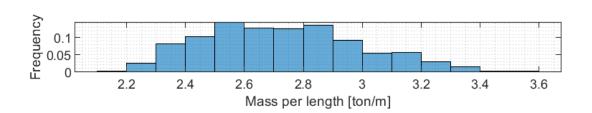




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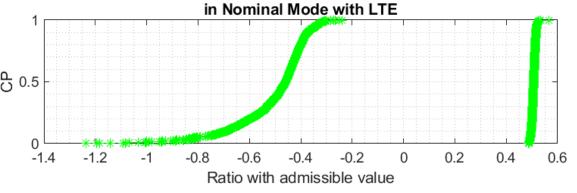


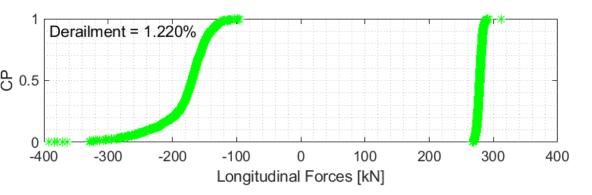
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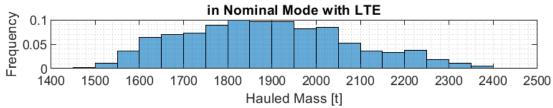


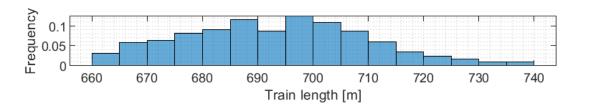
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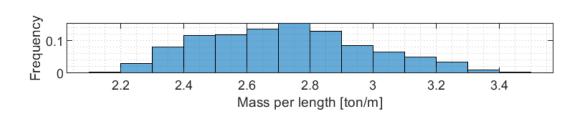




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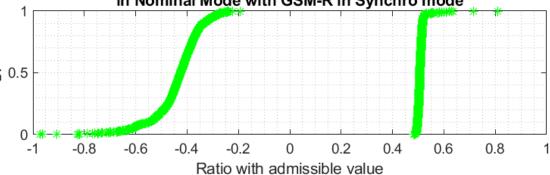


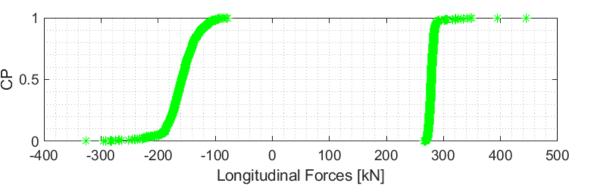
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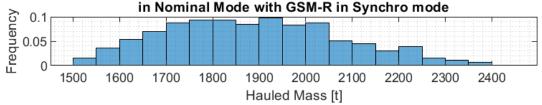


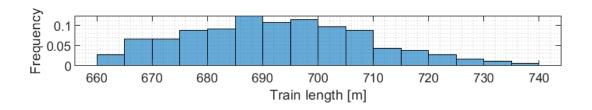
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

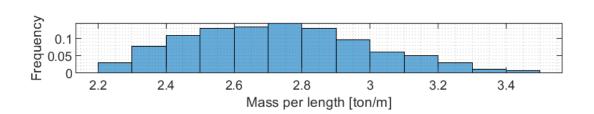




2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 180-220, and masses of 1201-1600, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode









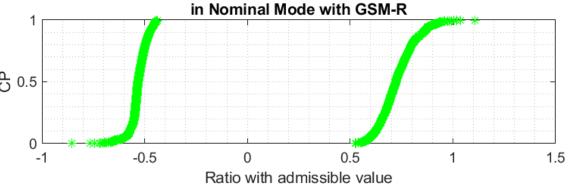
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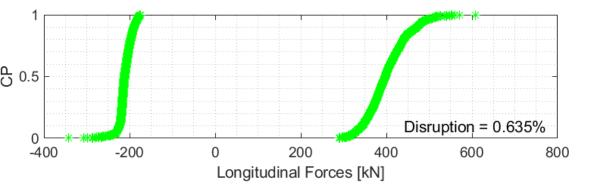




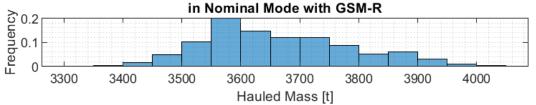
#### 2T - 840 m

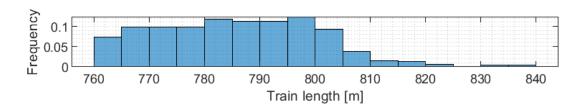
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 2500-3000, 0-800, running all in G brake mode and performing a T-EB

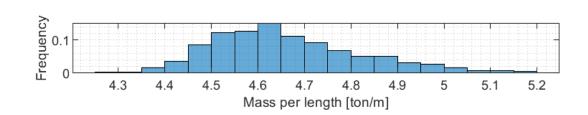




# 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 2500-3000, 0-800, running all in G brake mode and performing a T-EB









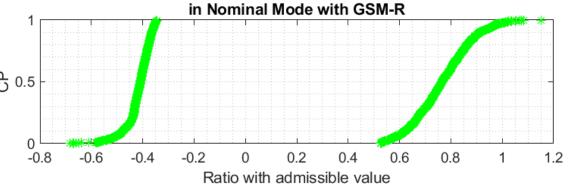
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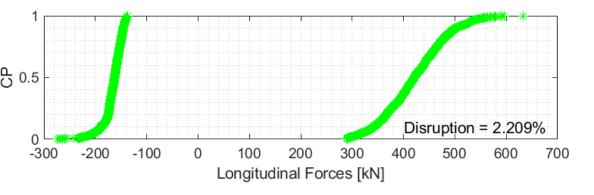




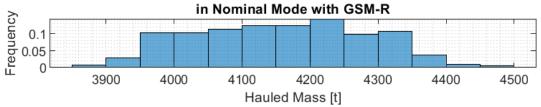
#### 2T - 840 m

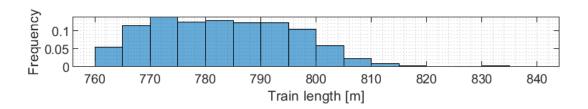
2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 2750-3250, 801-1200, running all in G brake mode and performing a T-EB

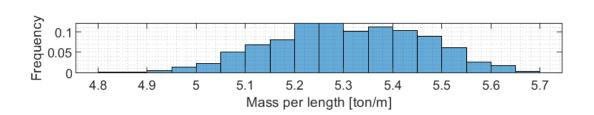




## 2T with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 2750-3250, 801-1200, running all in G brake mode and performing a T-EB







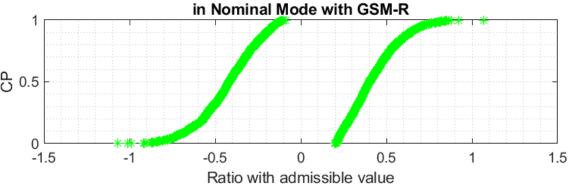


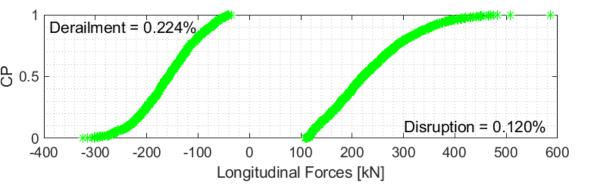
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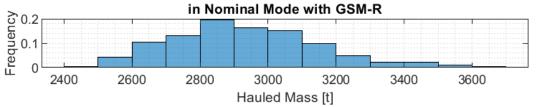


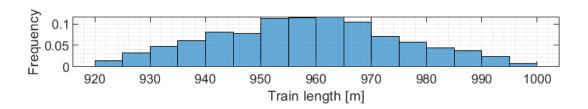
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

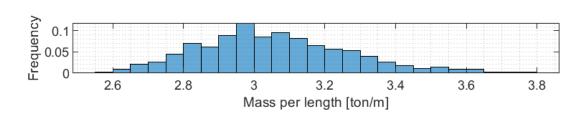




### 2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







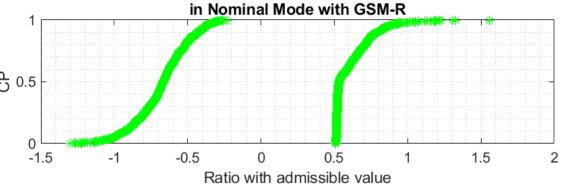


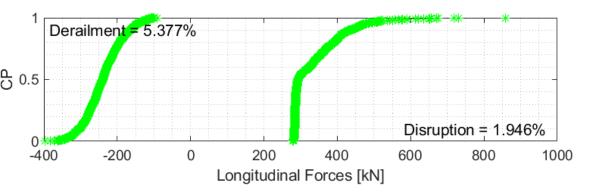
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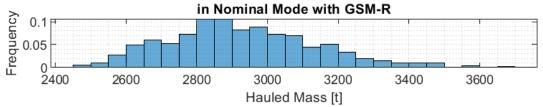


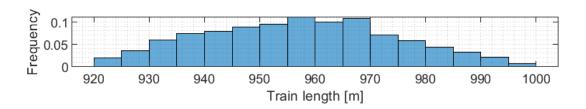
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

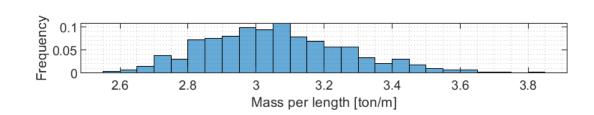




### 2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







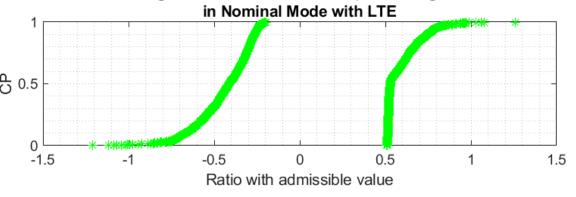


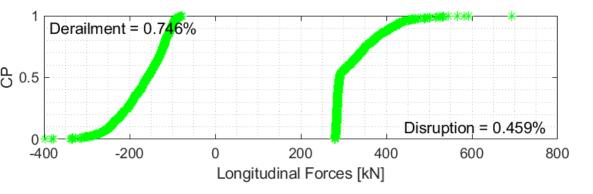
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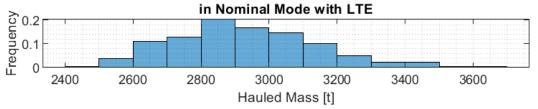


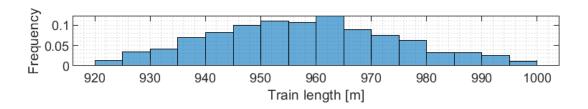
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

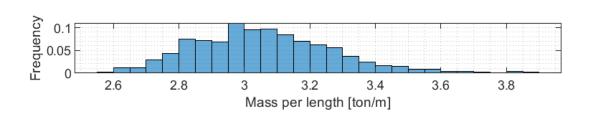




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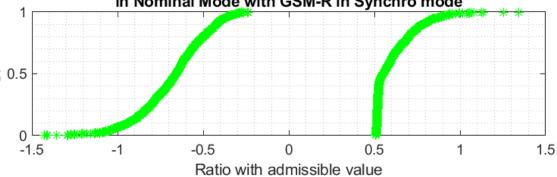


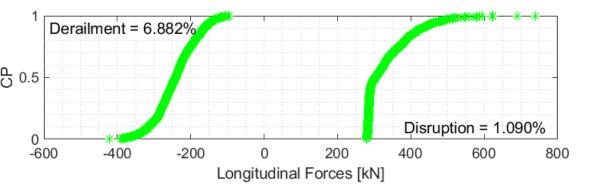
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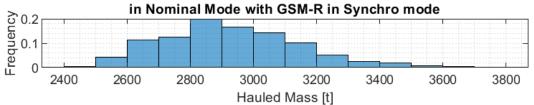


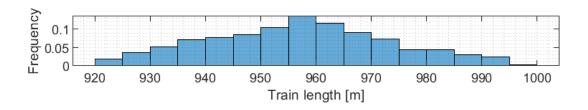
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

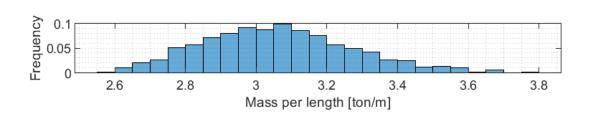




2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







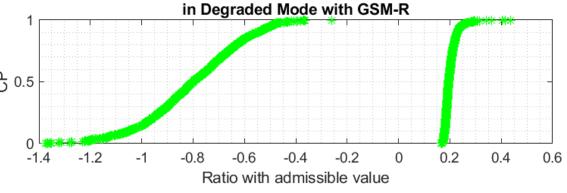


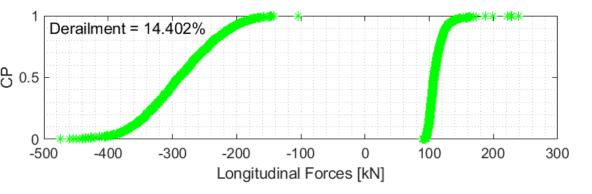
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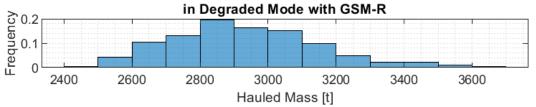


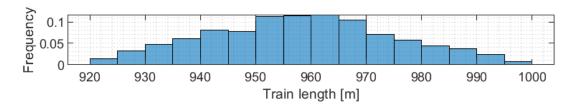
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

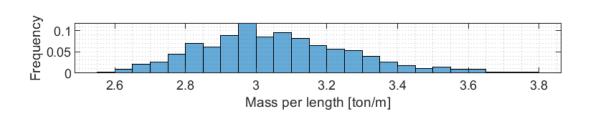




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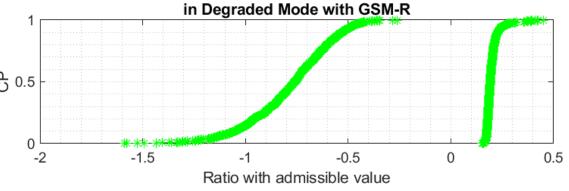


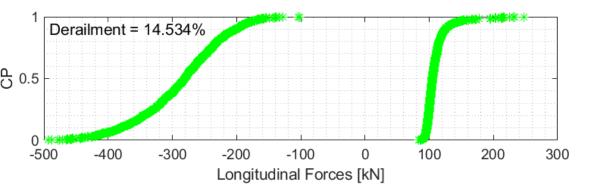
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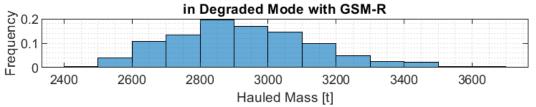


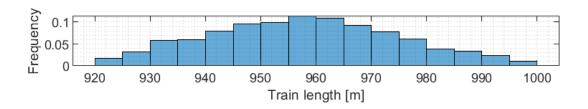
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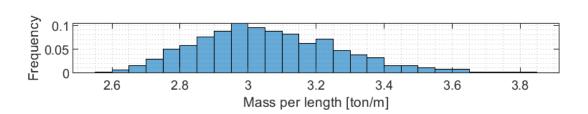




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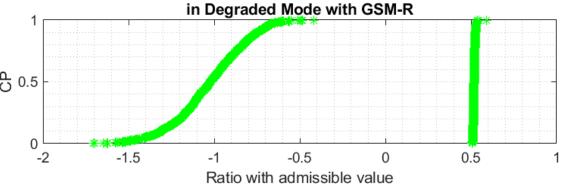


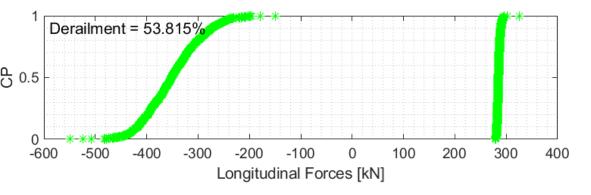
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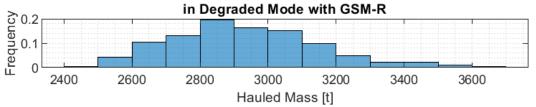


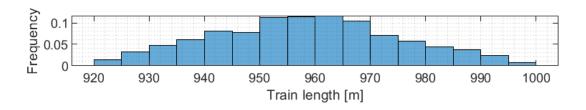
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

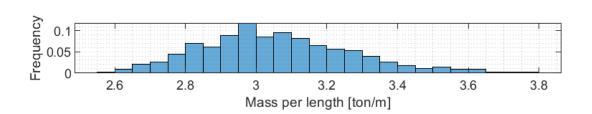




## 2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







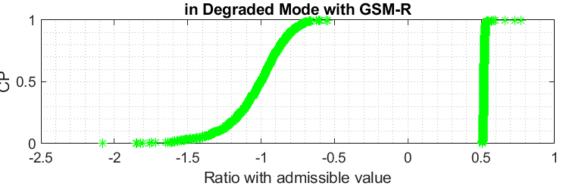


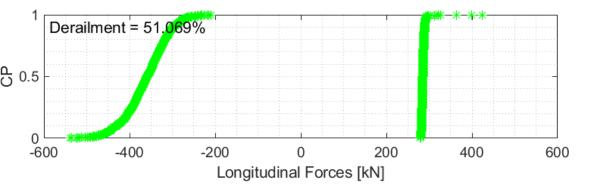
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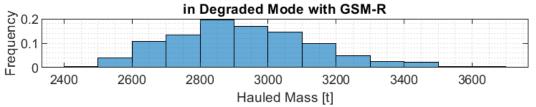


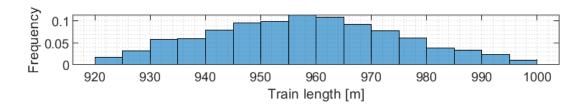
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

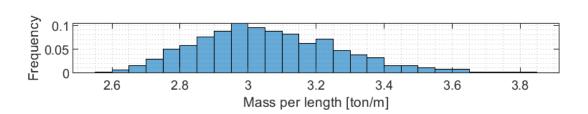




### 2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







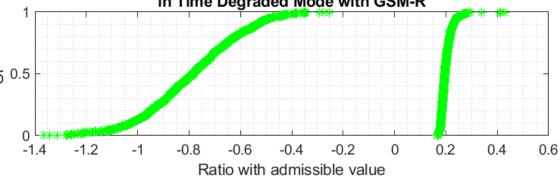


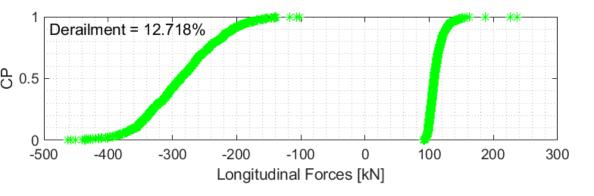
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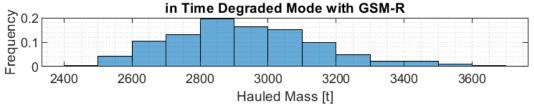


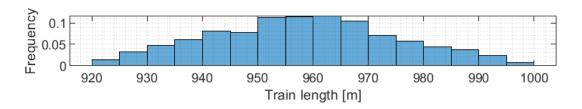
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R

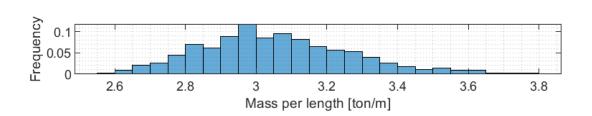




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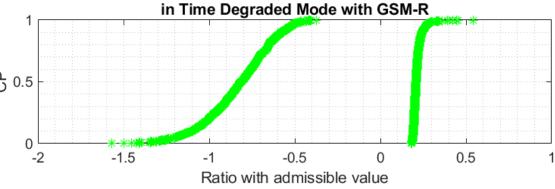


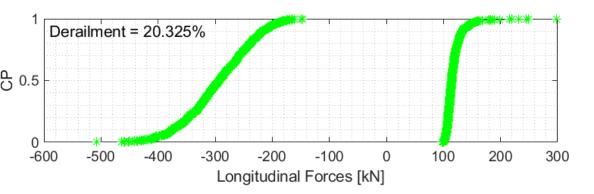
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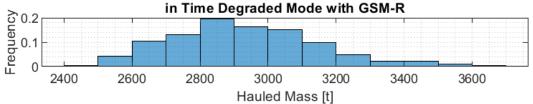


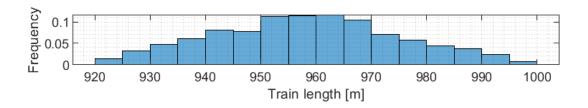
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

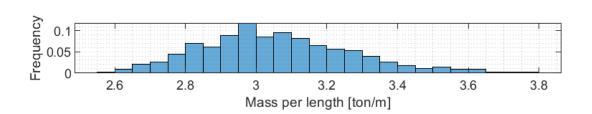




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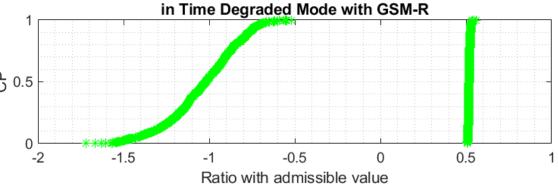


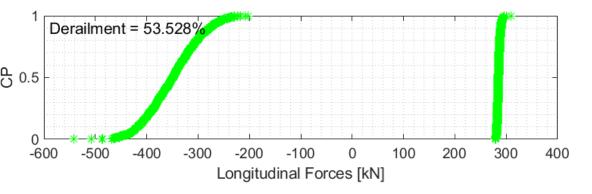
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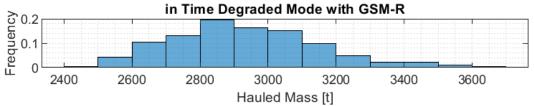


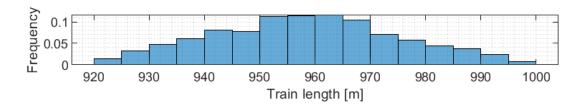
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

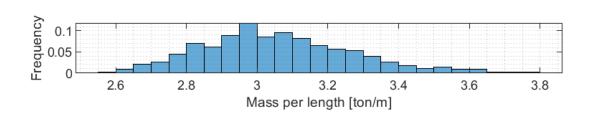




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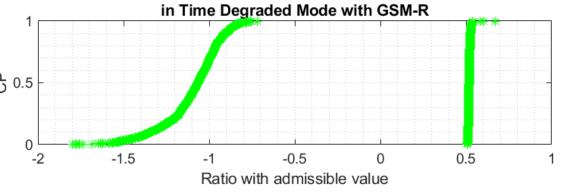


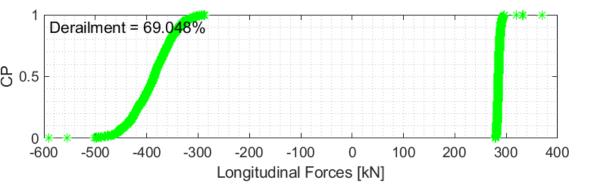
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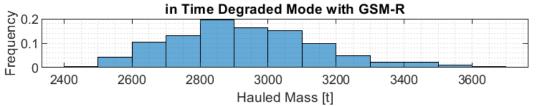


2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

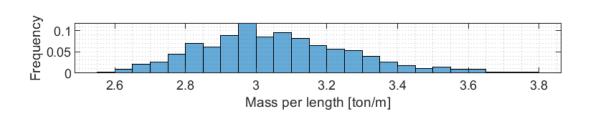




## 2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







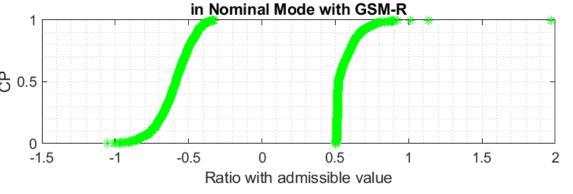


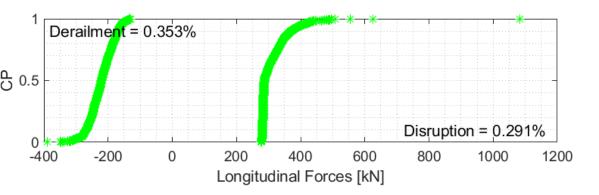
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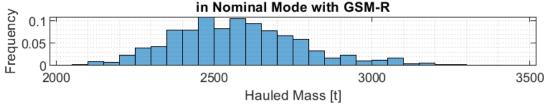


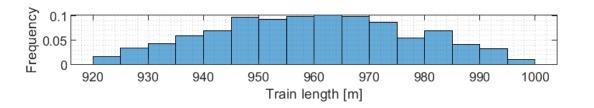
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB

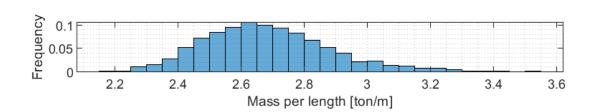




2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R







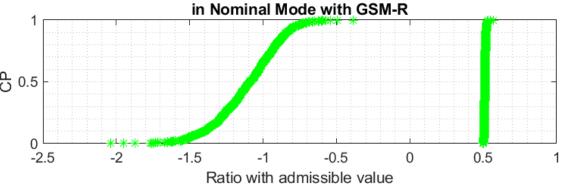


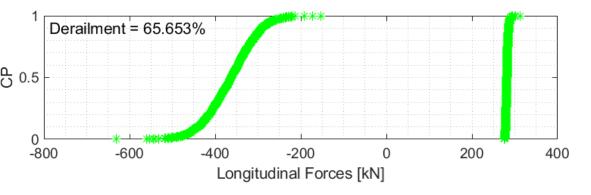
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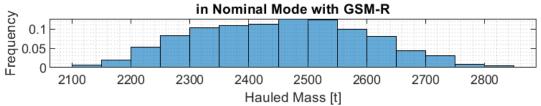


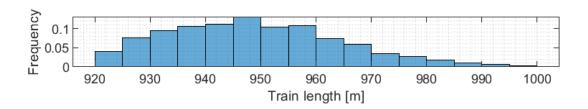
2T with loco BR187 formed by connection of 2 trains having lengths of 520-560, 400-440, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

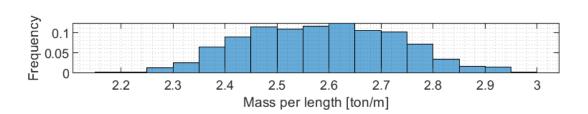




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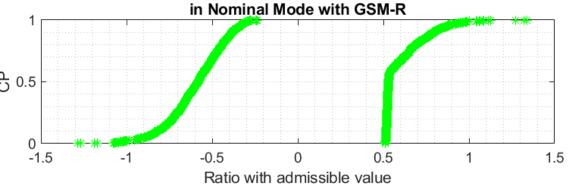


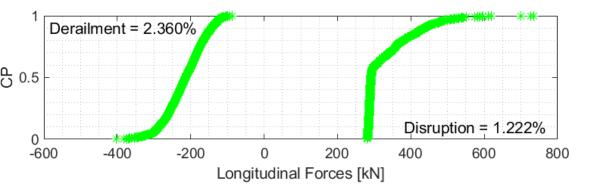
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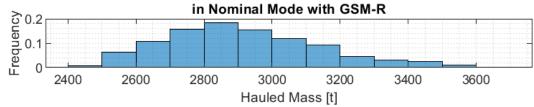


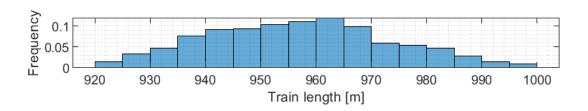
2T with loco BR187 formed by connection of 2 trains having lengths of 560-600, 360-400, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

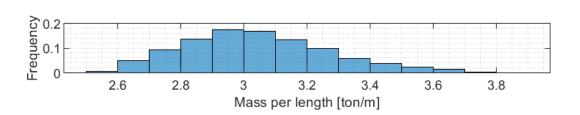




### 2T with loco BR187 formed by connection of 2 trains having lengths of 560-600, 360-400, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







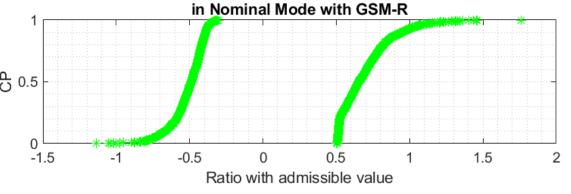


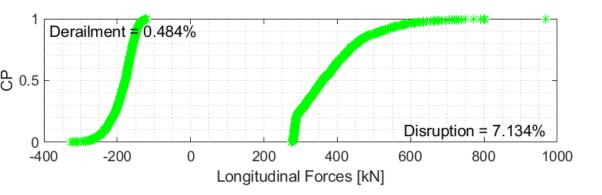
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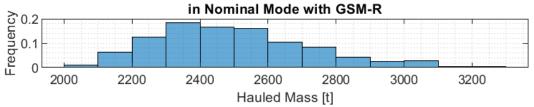


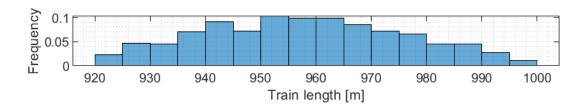
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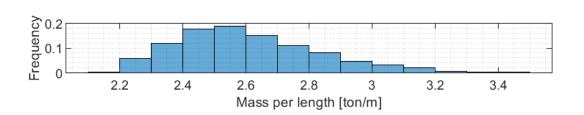




2T with loco BR187 formed by connection of 2 trains having lengths of 560-600, 360-400, and masses of 1601-2500, 0-800, running all in G brake mode and performing a T-EB







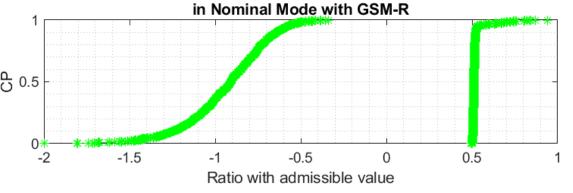


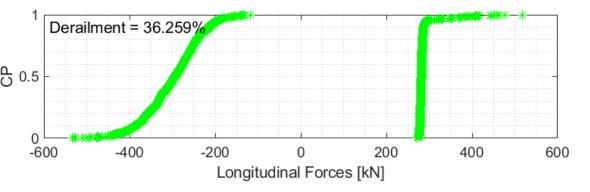
MAke RAil The HOpe for protecting Nature 2 future OPERATION



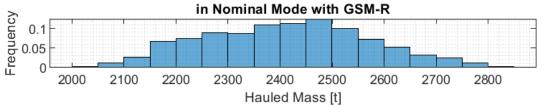


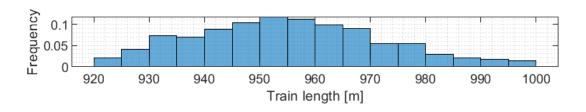
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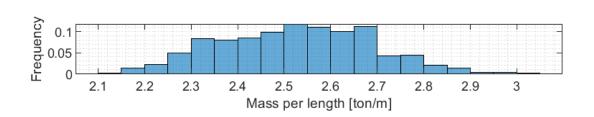




### 2T with loco BR187 formed by connection of 2 trains having lengths of 560-600, 360-400, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB







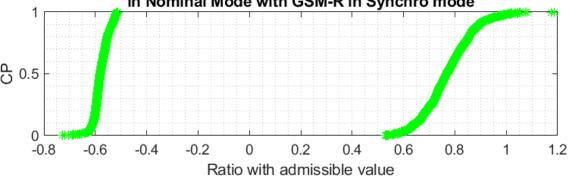


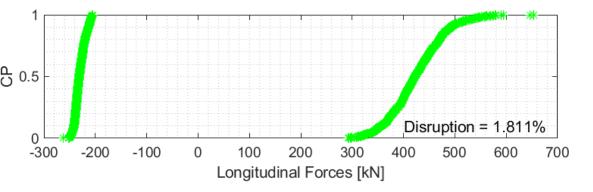
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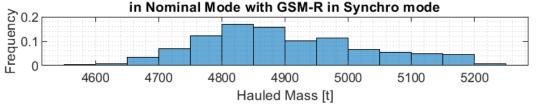


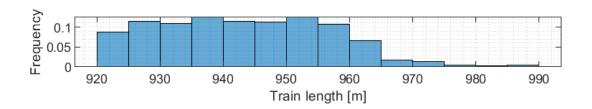
2T with loco BR187 formed by connection of 2 trains having lengths of 660-700, 260-300, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

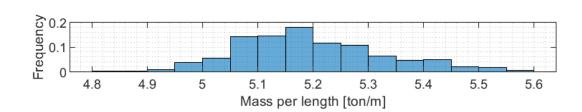




2T with loco BR187 formed by connection of 2 trains having lengths of 660-700, 260-300, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







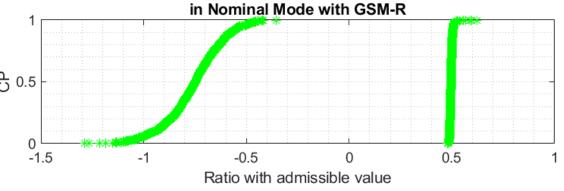


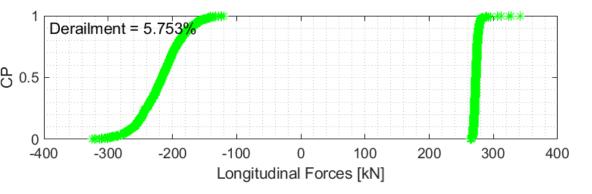
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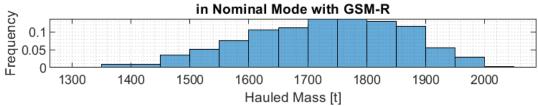


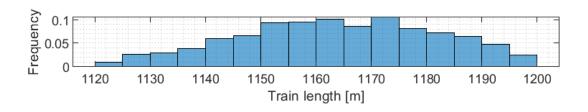
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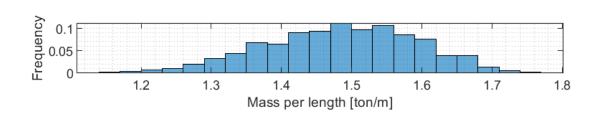




2T with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB







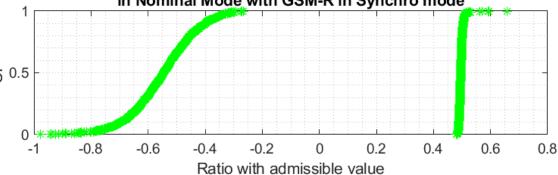


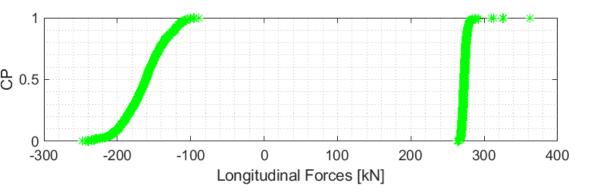
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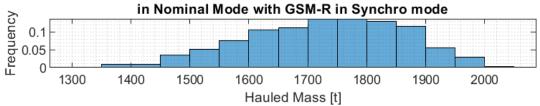


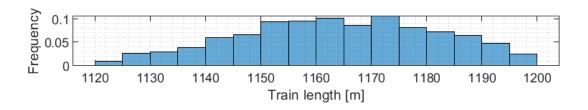
2T with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

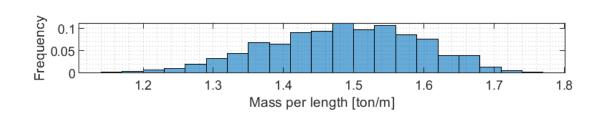




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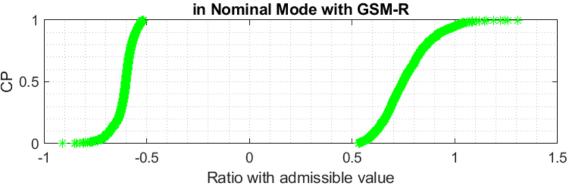


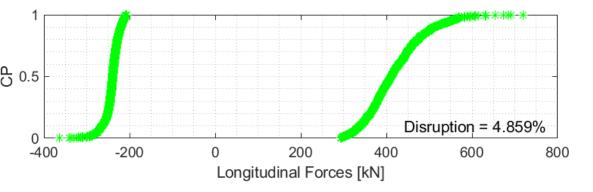
MAke RAil The HOpe for protecting Nature 2 future OPERATION



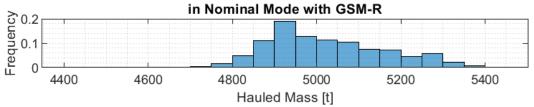


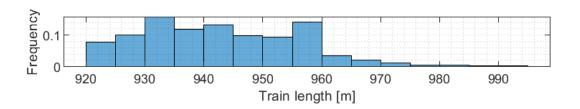
2T with loco BR187 formed by connection of 2 trains having lengths of 680-720, 240-280, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB

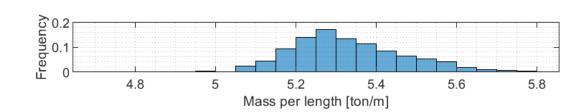




2T with loco BR187 formed by connection of 2 trains having lengths of 680-720, 240-280, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB







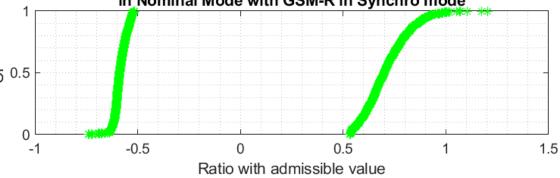


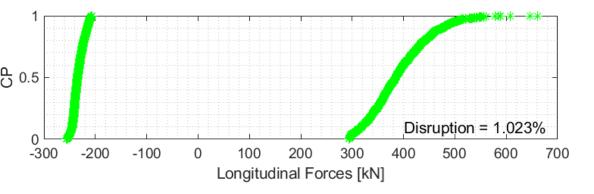
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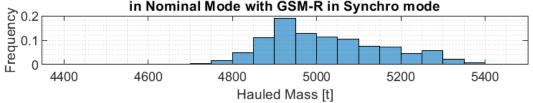


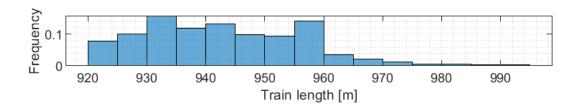
2T with loco BR187 formed by connection of 2 trains having lengths of 680-720, 240-280, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

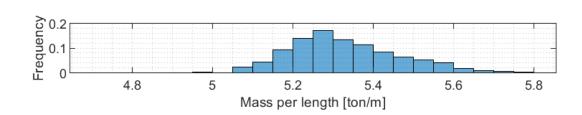




2T with loco BR187 formed by connection of 2 trains having lengths of 680-720, 240-280, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







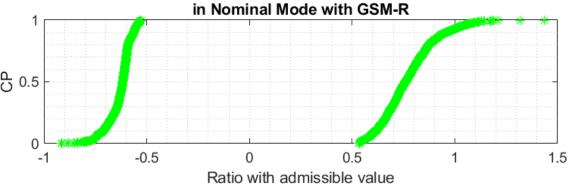


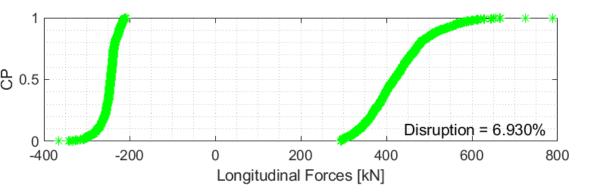
MAke RAil The HOpe for protecting Nature 2 future OPERATION



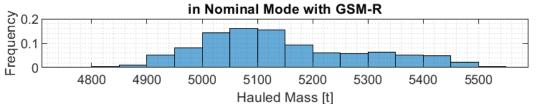


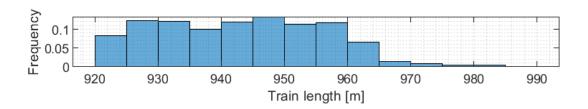
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 220-260, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB

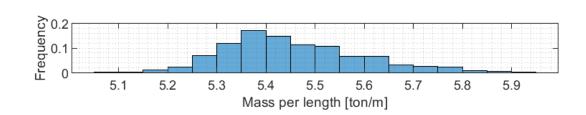




# 2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 220-260, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB







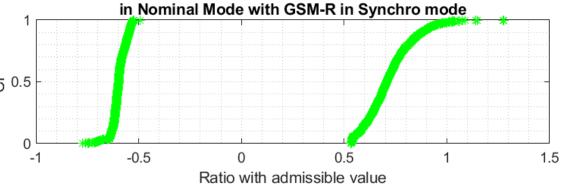


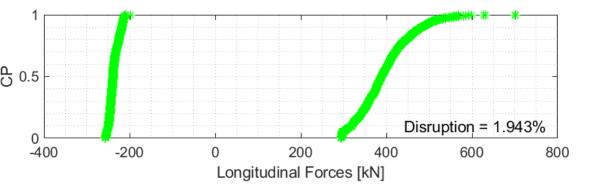
MAke RAil The HOpe for protecting Nature 2 future OPERATION



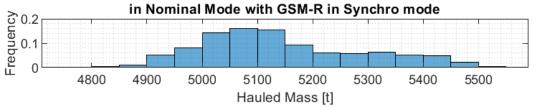


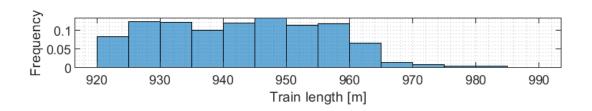
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 220-260, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB

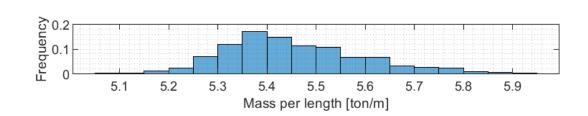




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 220-260, and masses of 3500-4000, 0-800, running all in G brake mode and performing a T-EB







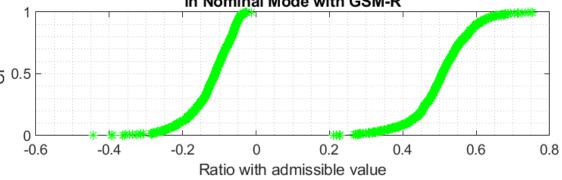


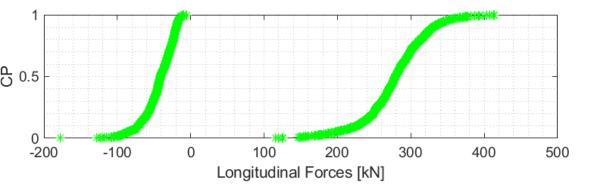
MAke RAil The HOpe for protecting Nature 2 future OPERATION



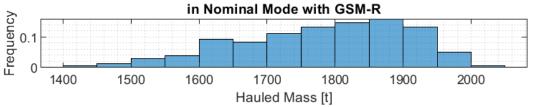


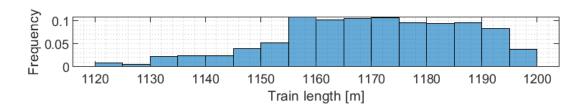
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB in Nominal Mode with GSM-R

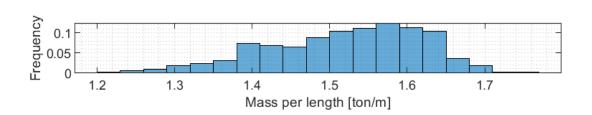




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB







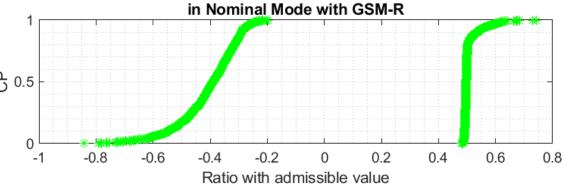


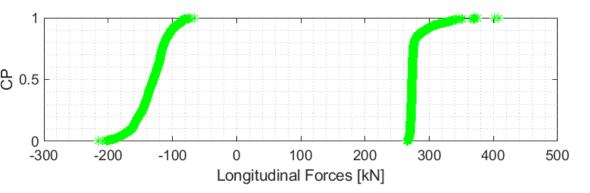
MAke RAII The HOpe for protecting Nature 2 future OPERATION



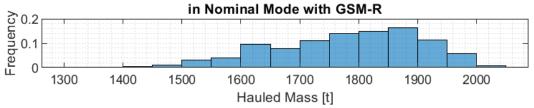


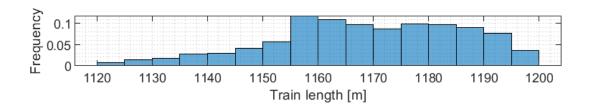
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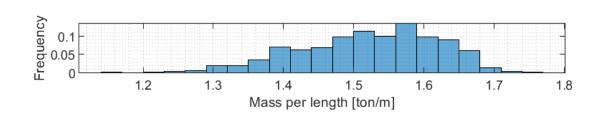




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB







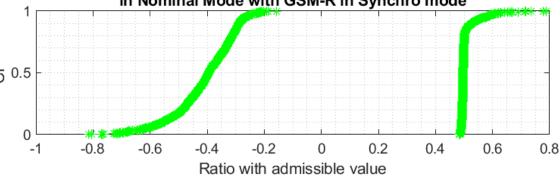


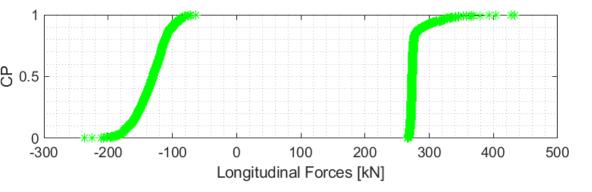
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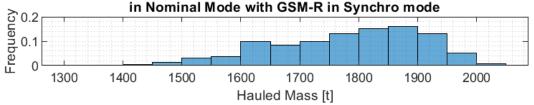


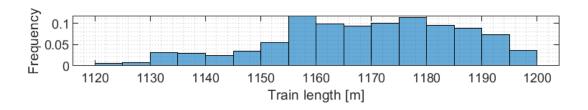
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

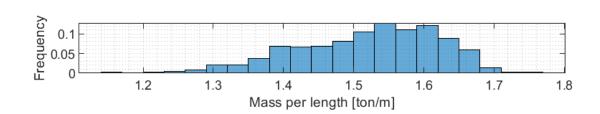




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







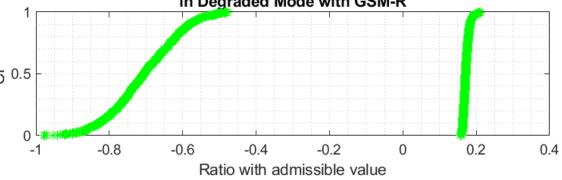


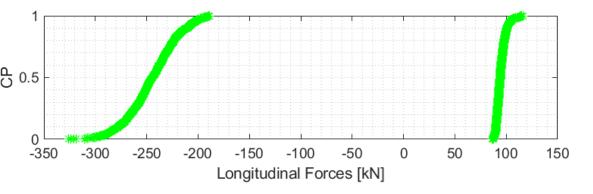
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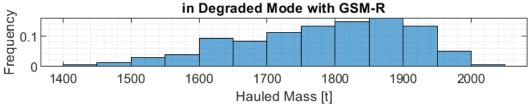


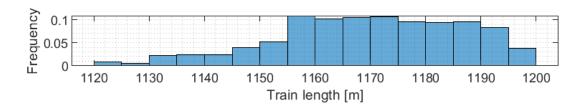
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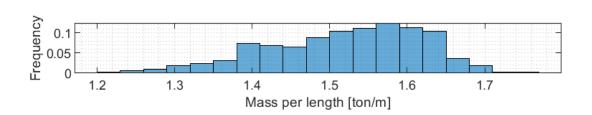




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB







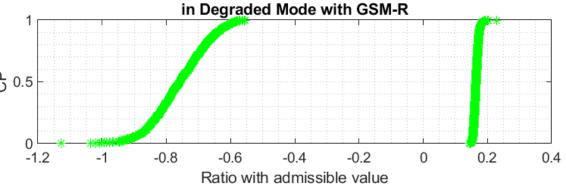


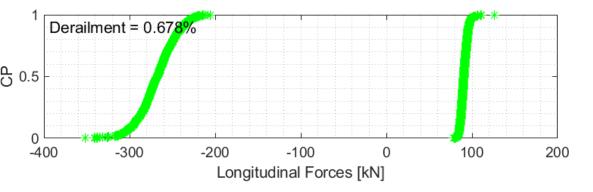
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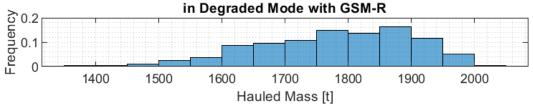


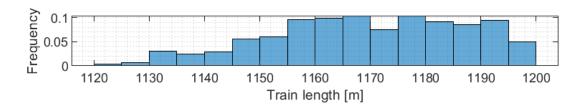
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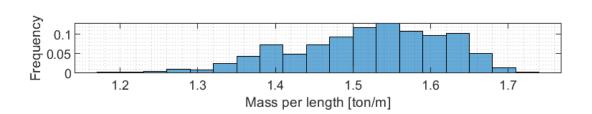




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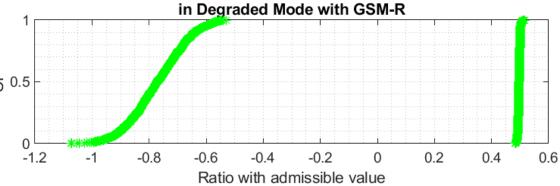


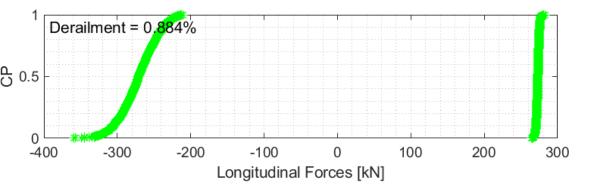
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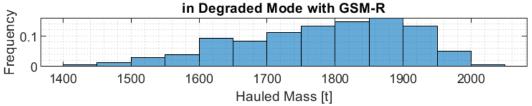


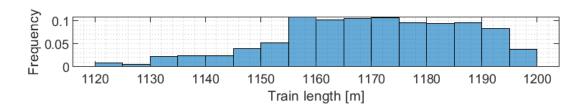
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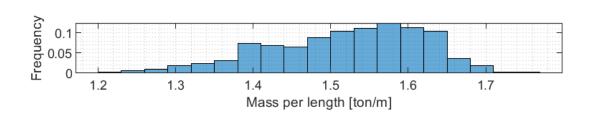




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB







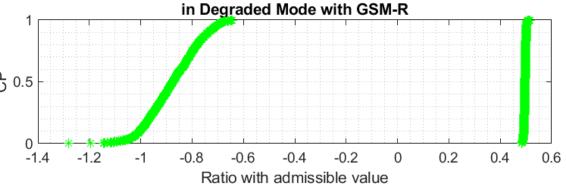


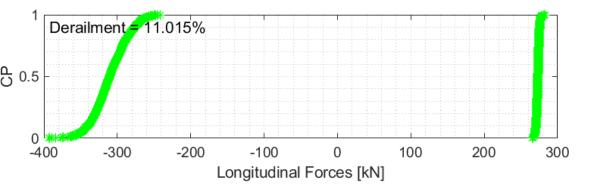
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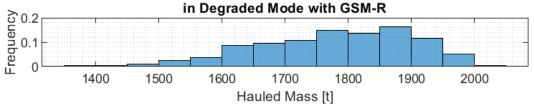


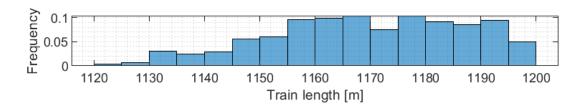
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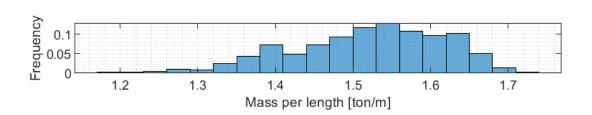




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB







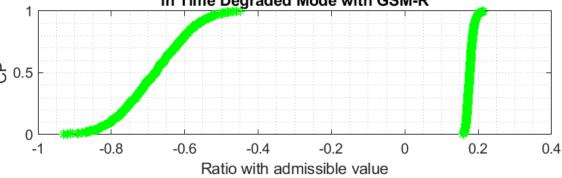


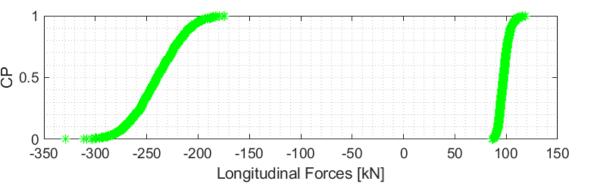
MAke RAil The HOpe for protecting Nature 2 future OPERATION



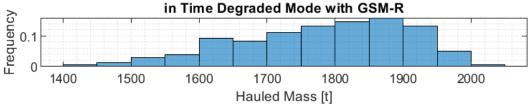


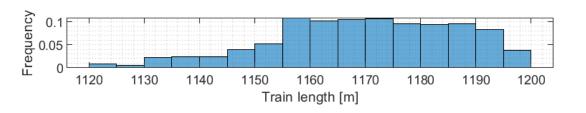
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R

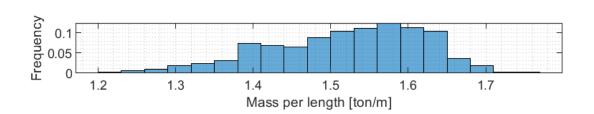




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB







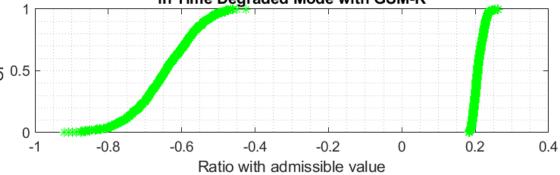


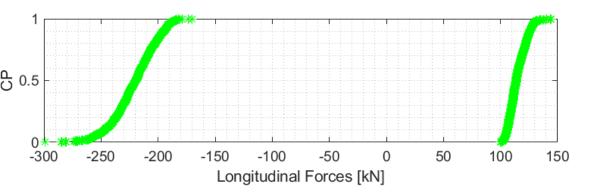
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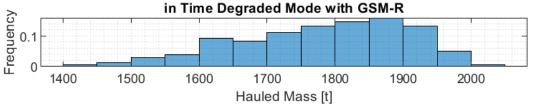


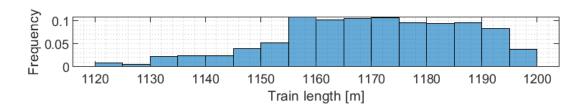
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R

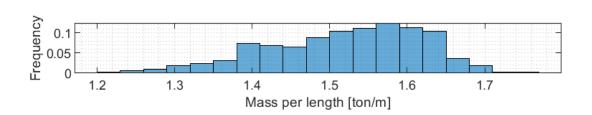




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R







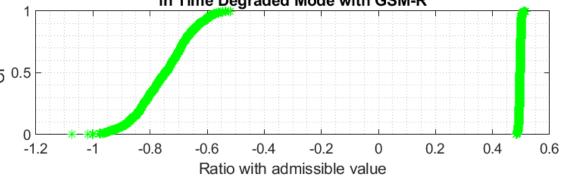


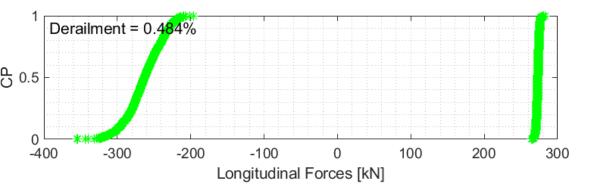
MAke RAil The HOpe for protecting Nature 2 future OPERATION



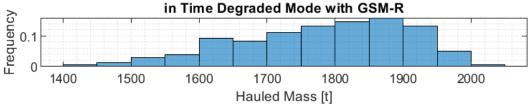


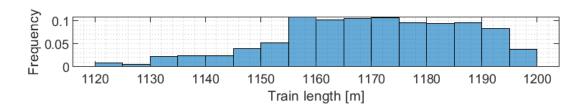
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB in Time Degraded Mode with GSM-R

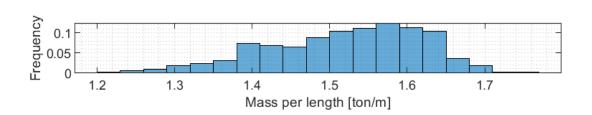




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB







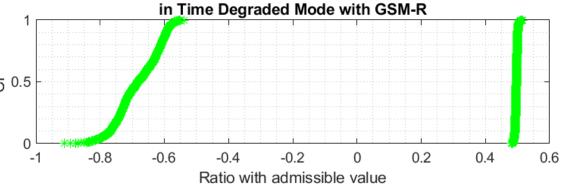


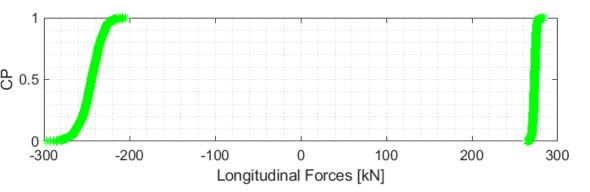
MAke RAil The HOpe for protecting Nature 2 future OPERATION



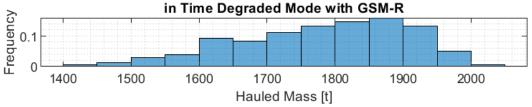


2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB

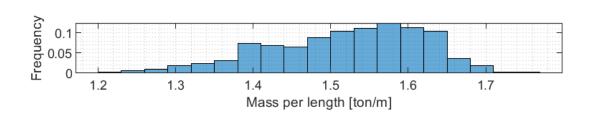




2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 801-1200, 0-800, running all in G brake mode and performing a T-EB







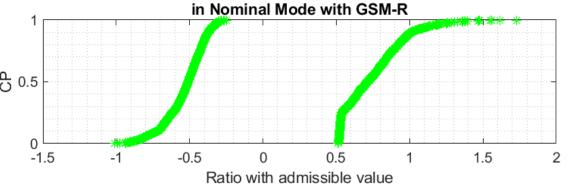


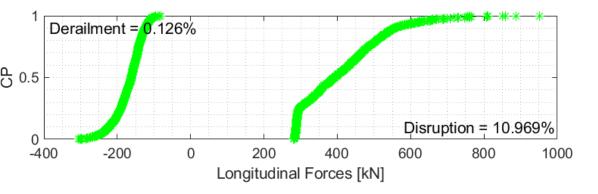
MAke RAil The HOpe for protecting Nature 2 future OPERATION



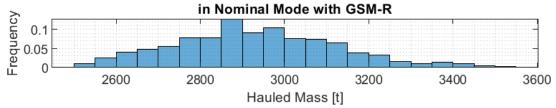


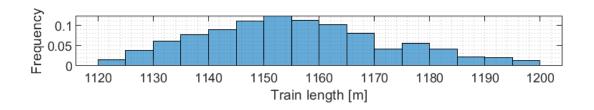
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

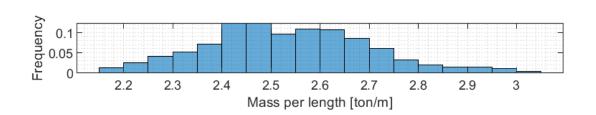




# 2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







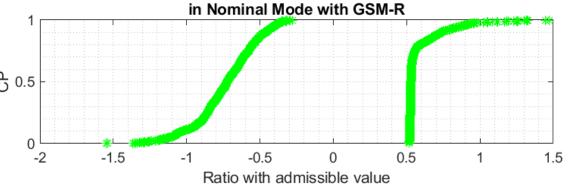


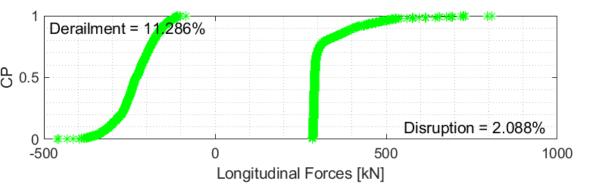
MAke RAil The HOpe for protecting Nature 2 future OPERATION



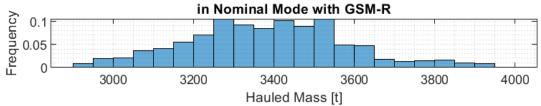


2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 1601-2500, 1201-1600, running all in G brake mode and performing a T-EB

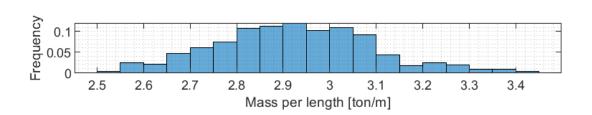




## 2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 1601-2500, 1201-1600, running all in G brake mode and performing a T-EB







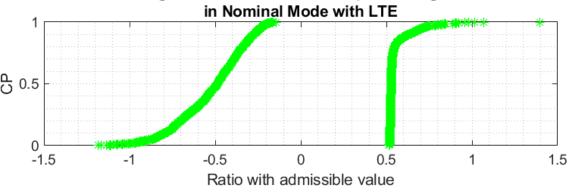


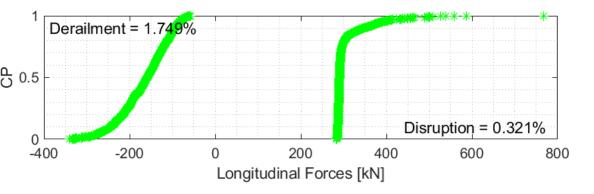
MAke RAil The HOpe for protecting Nature 2 future OPERATION



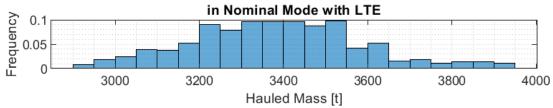


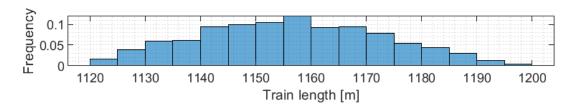
2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 1601-2500, 1201-1600, running all in G brake mode and performing a T-EB

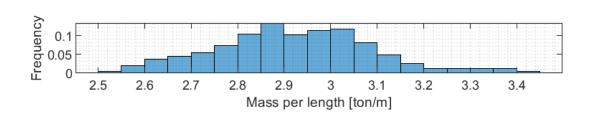




## 2T with loco BR187 formed by connection of 2 trains having lengths of 700-740, 420-460, and masses of 1601-2500, 1201-1600, running all in G brake mode and performing a T-EB







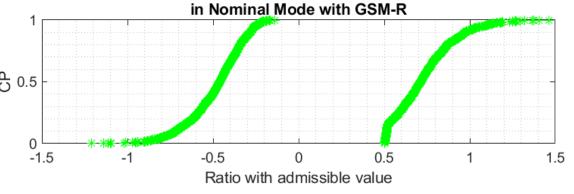


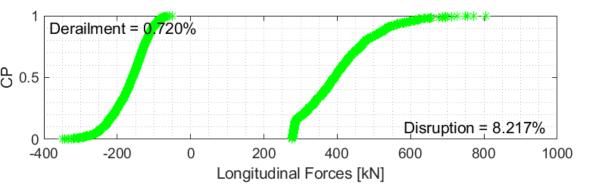
MAke RAil The HOpe for protecting Nature 2 future OPERATION



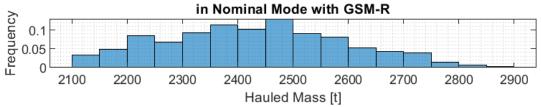


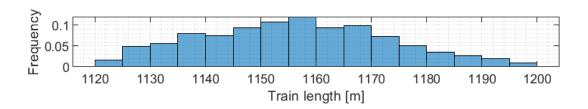
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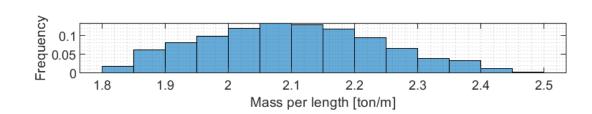




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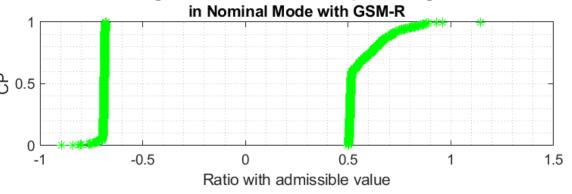


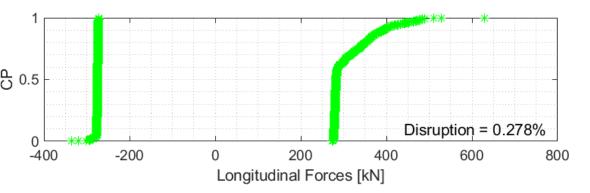
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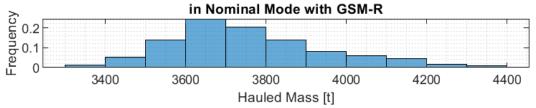


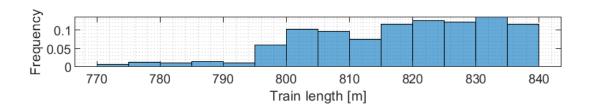
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 430-470, 330-370, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB

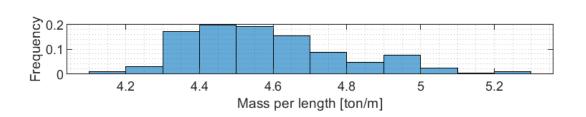




## 2T-SW with loco BR187 formed by connection of 2 trains having lengths of 430-470, 330-370, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB







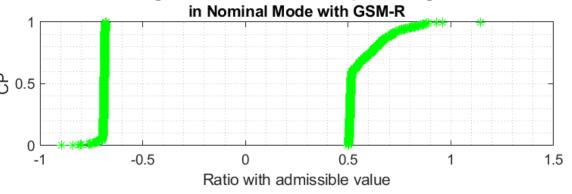


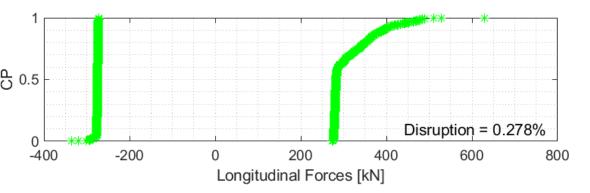
MAke RAII The HOpe for protecting Nature 2 future OPERATION



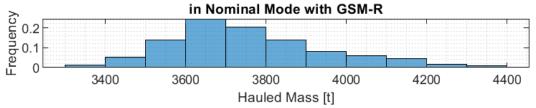


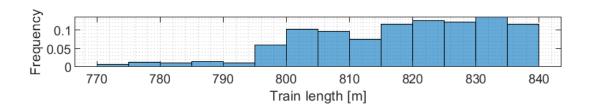
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 430-470, 330-370, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB

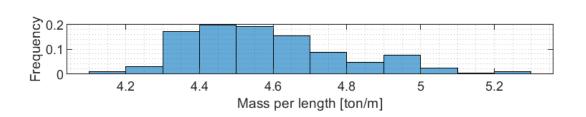




## 2T-SW with loco BR187 formed by connection of 2 trains having lengths of 430-470, 330-370, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB







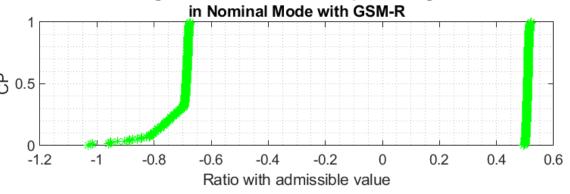


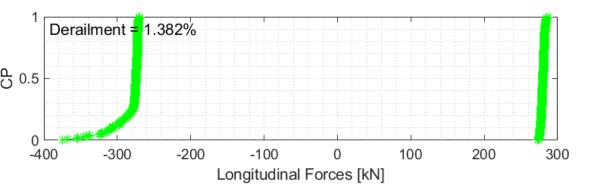
MAke RAII The HOpe for protecting Nature 2 future OPERATION



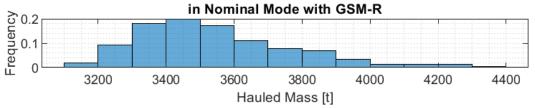


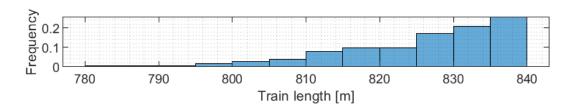
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB

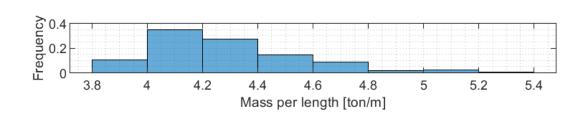




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB







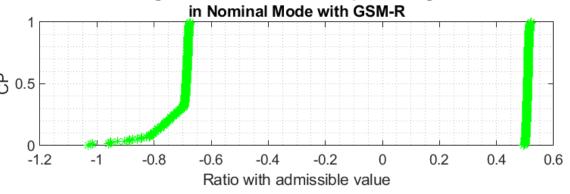


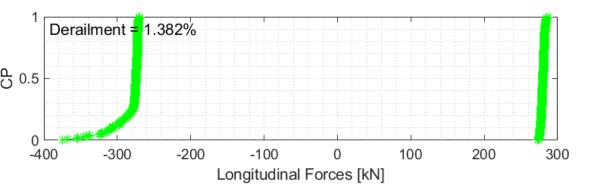
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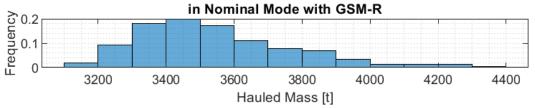


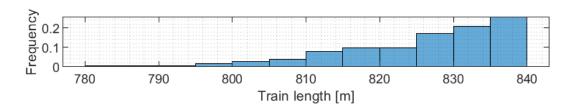
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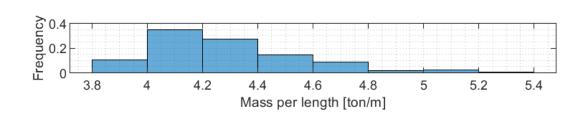




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 480-520, 280-320, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB







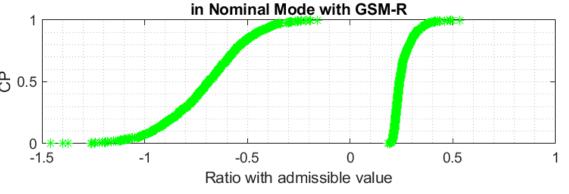


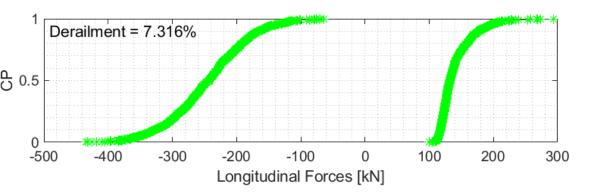
MAke RAil The HOpe for protecting Nature 2 future OPERATION



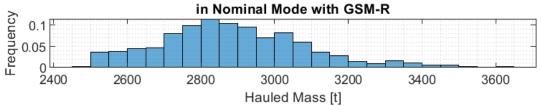


2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

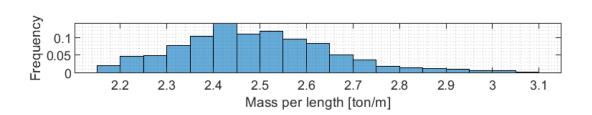




## 2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







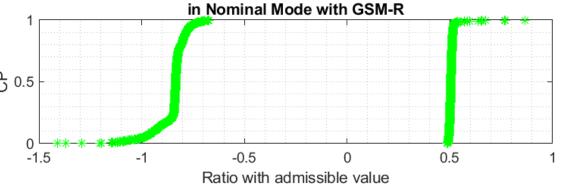


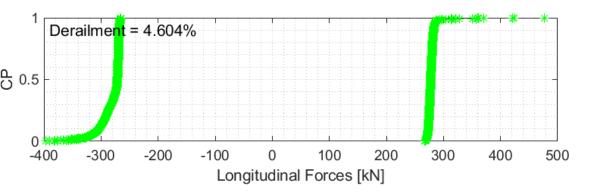
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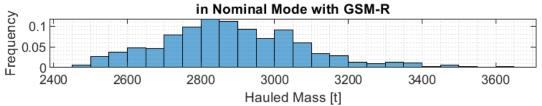


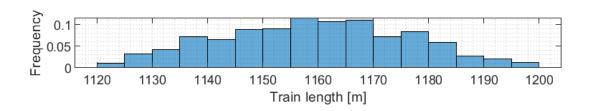
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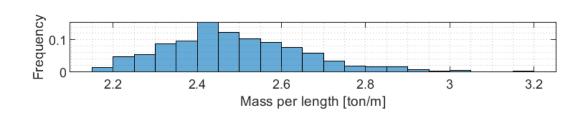




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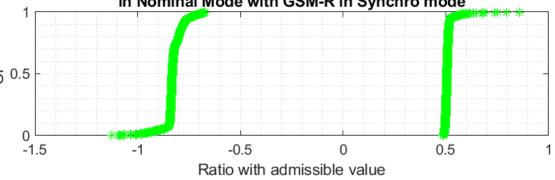


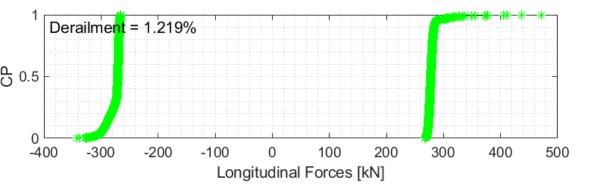
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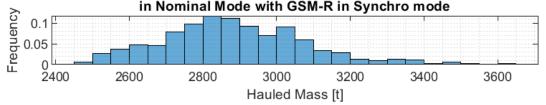


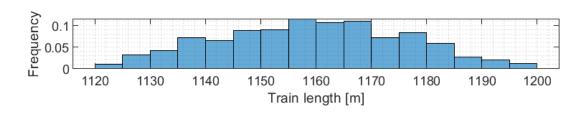
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

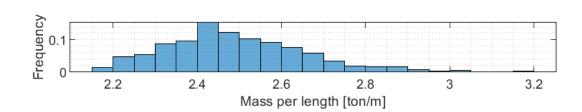




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







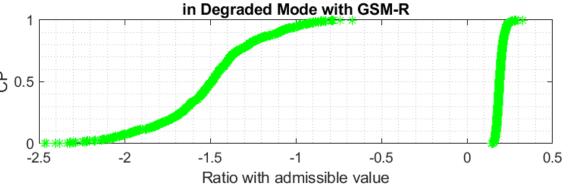


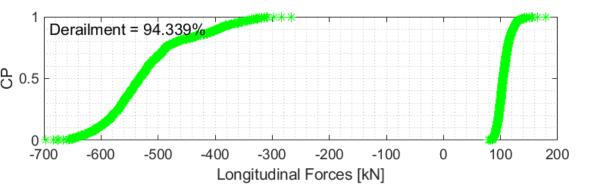
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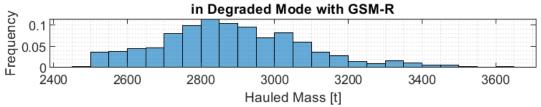


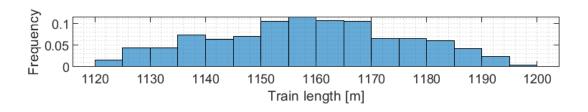
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB

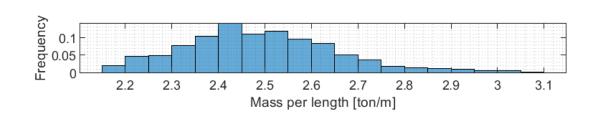




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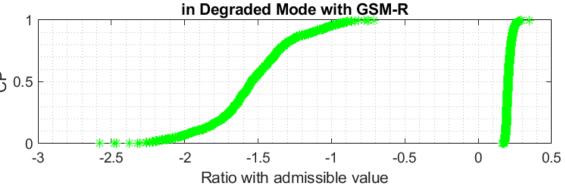


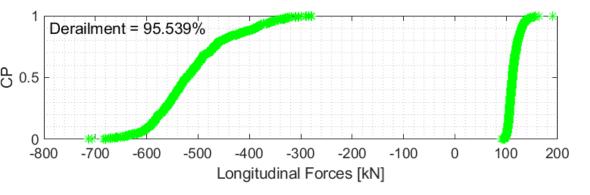
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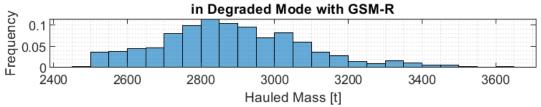


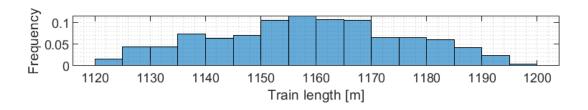
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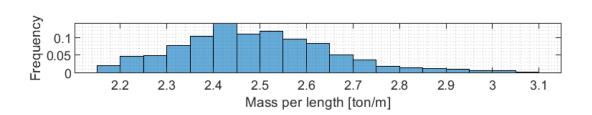




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







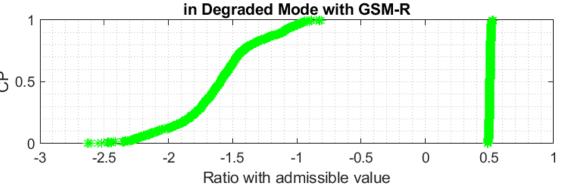


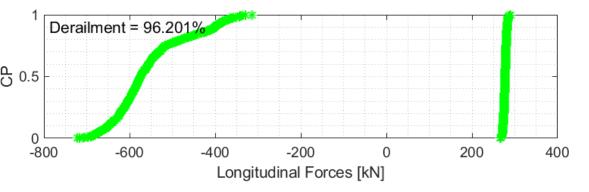
MAke RAil The HOpe for protecting Nature 2 future OPERATION



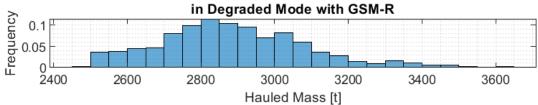


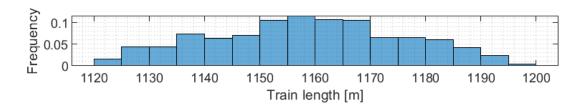
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

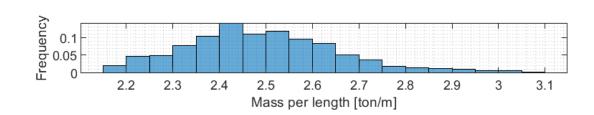




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







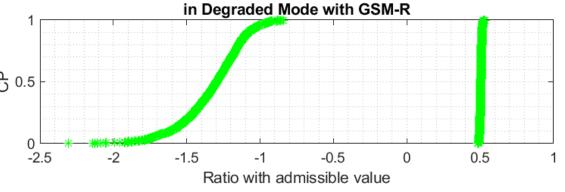


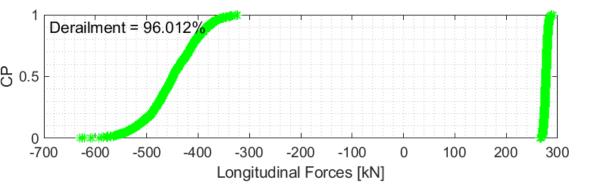
MAke RAil The HOpe for protecting Nature 2 future OPERATION



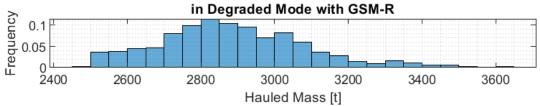


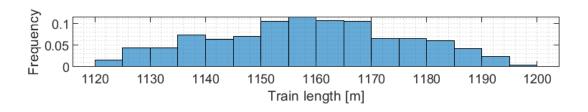
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

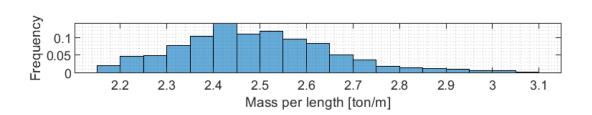




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







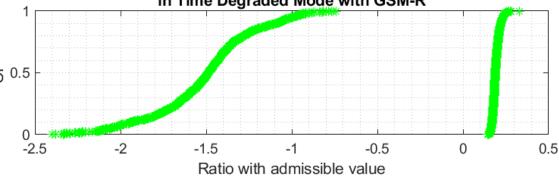


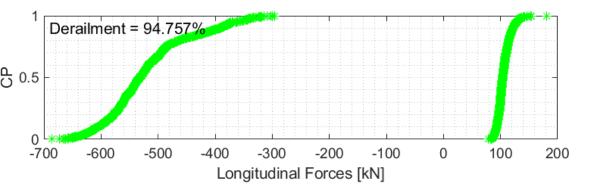
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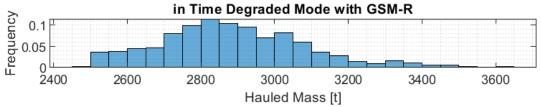


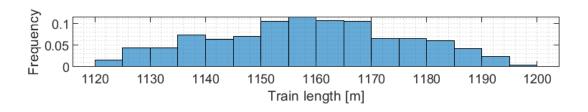
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R

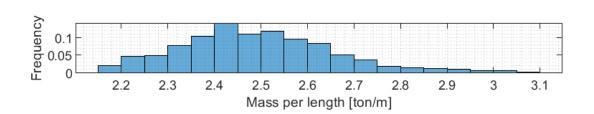




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







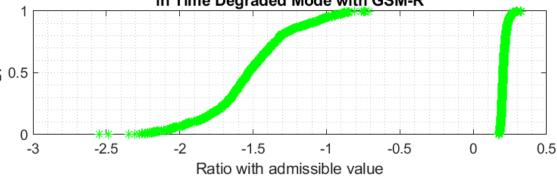


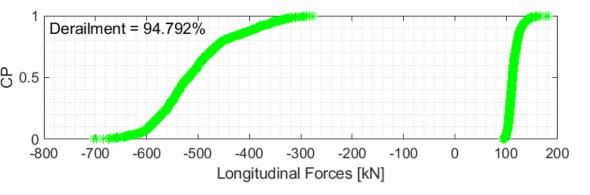
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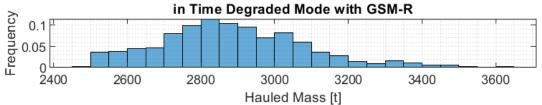


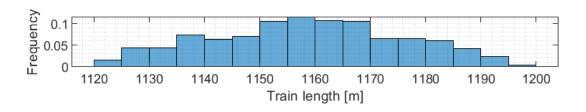
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB in Time Degraded Mode with GSM-R

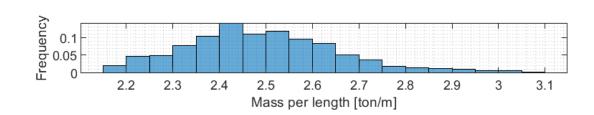




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing an EB







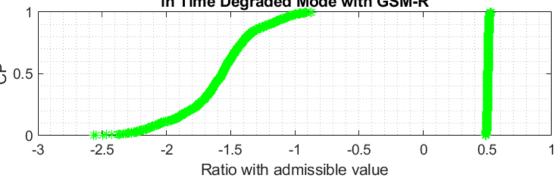


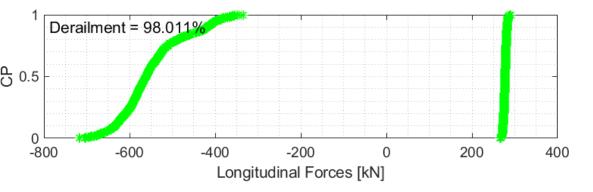
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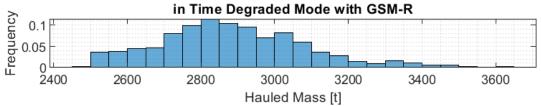


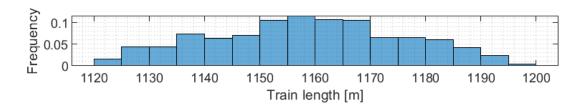
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Time Degraded Mode with GSM-R

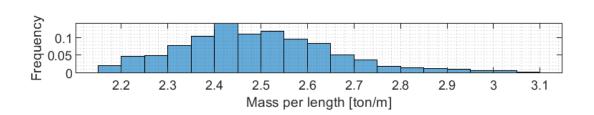




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







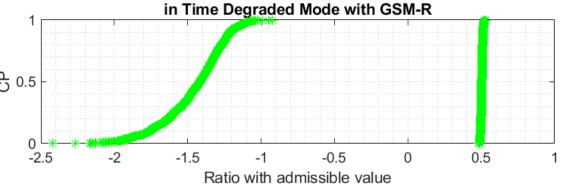


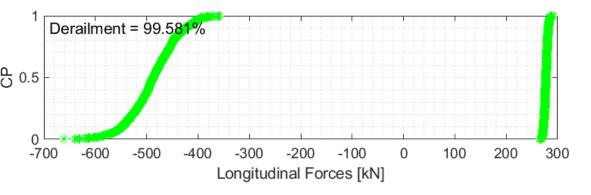
MAke RAil The HOpe for protecting Nature 2 future OPERATION



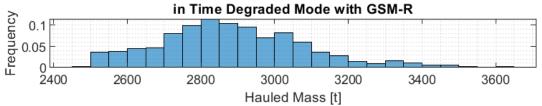


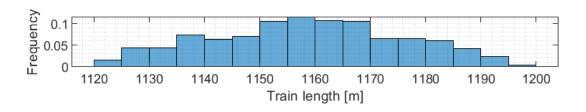
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

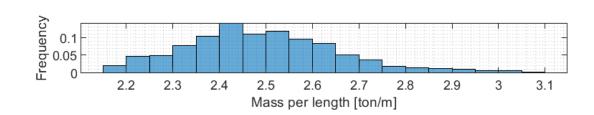




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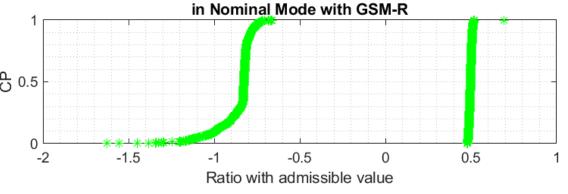


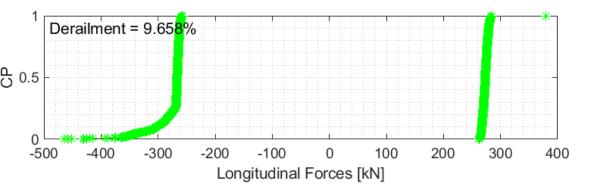
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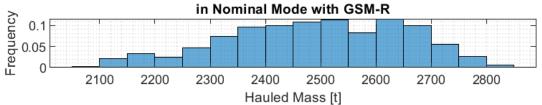


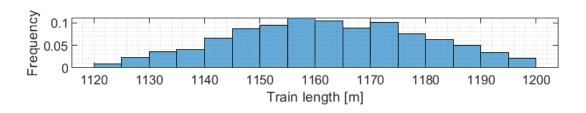
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

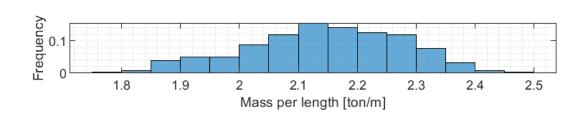




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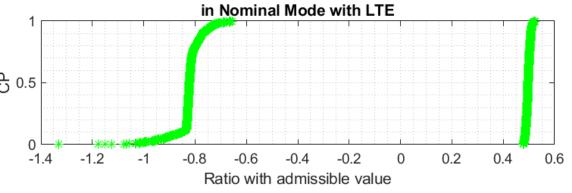


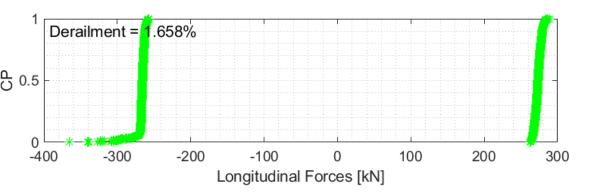
MAke RAil The HOpe for protecting Nature 2 future OPERATION



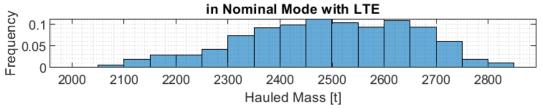


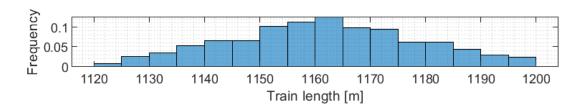
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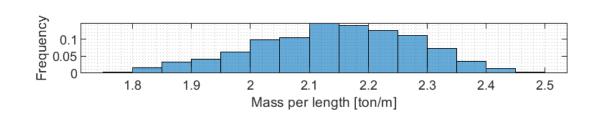




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB







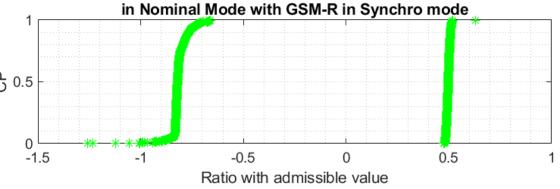


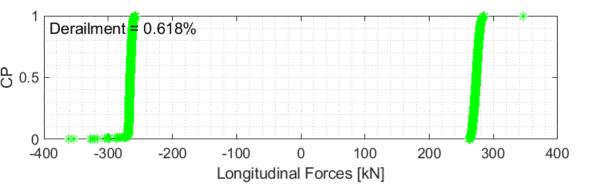
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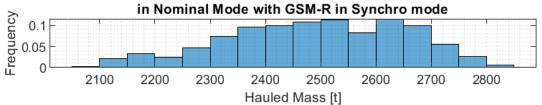


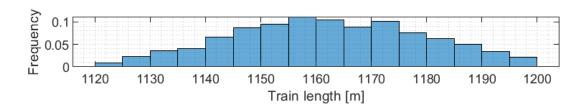
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

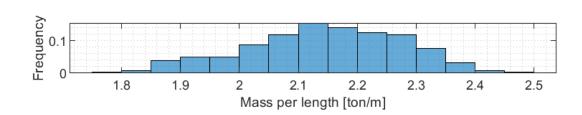




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 620-660, 500-540, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







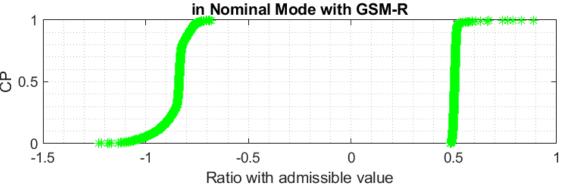


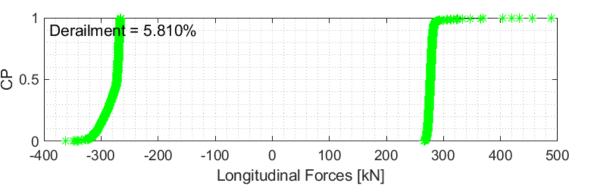
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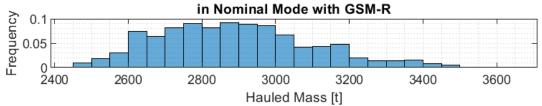


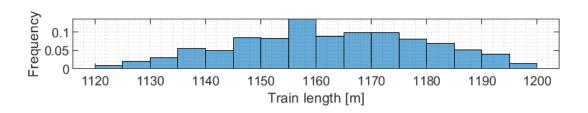
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB

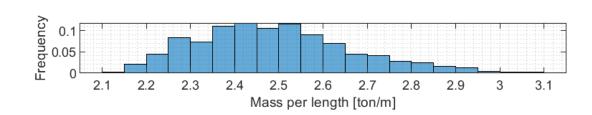




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







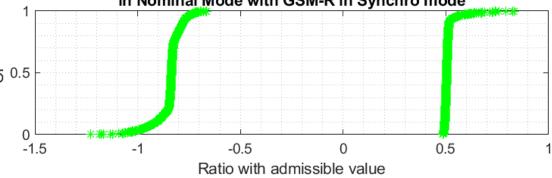


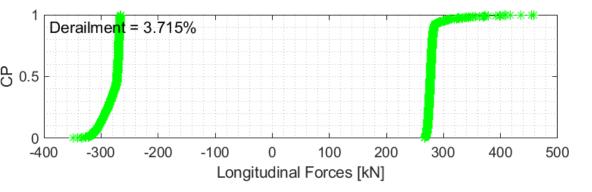
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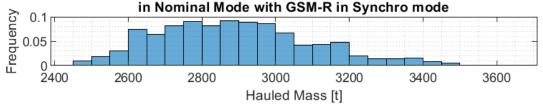


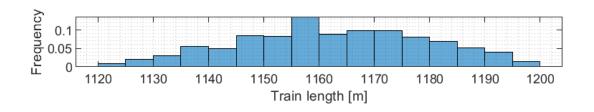
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode

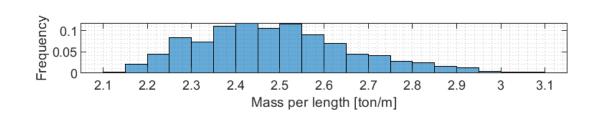




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1601-2500, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







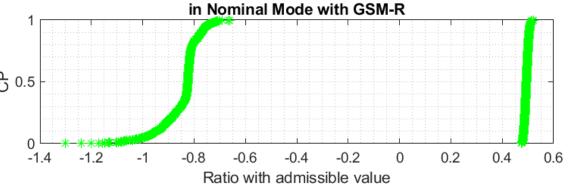


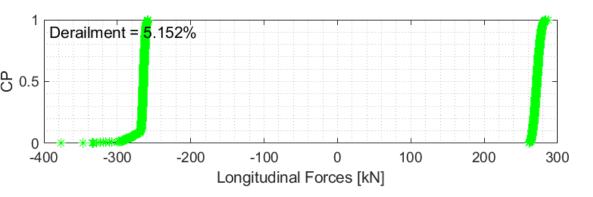
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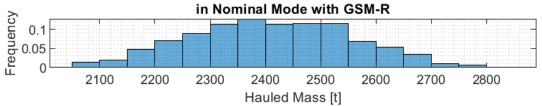


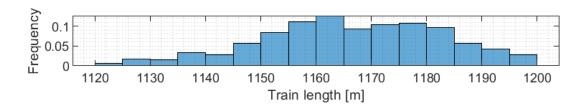
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

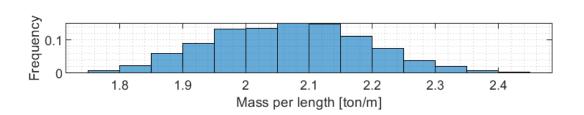




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB







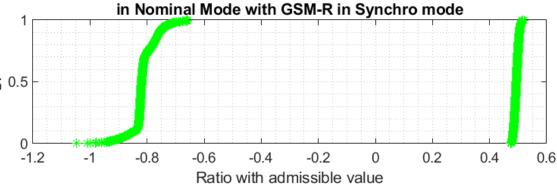


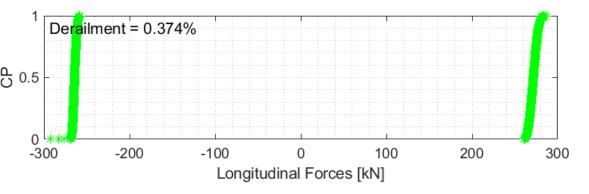
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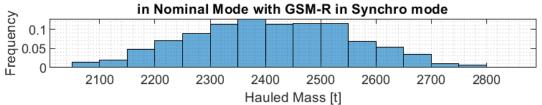


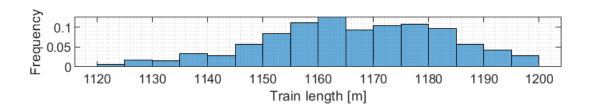
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB

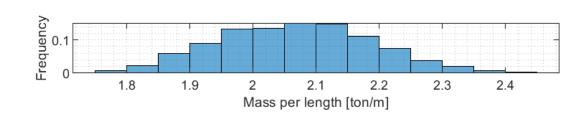




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 660-700, 460-500, and masses of 1201-1600, 801-1200, running all in G brake mode and performing a T-EB in Nominal Mode with GSM-R in Synchro mode







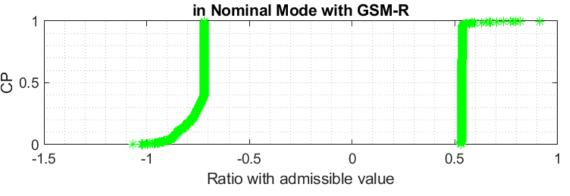


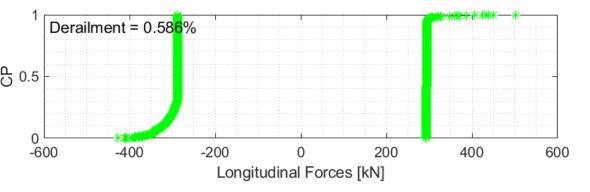
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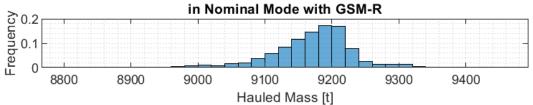


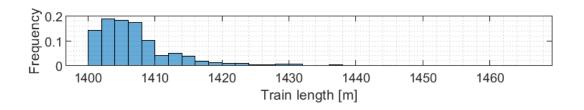
2T-SW with loco BR187 formed by connection of 2 trains having lengths of 700-740, 700-740, and masses of 3500-4000, 3500-4000, running all in G brake mode and performing a T-EB

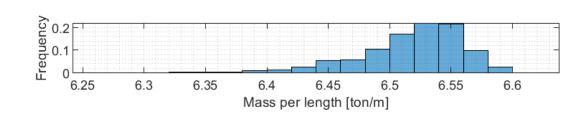




2T-SW with loco BR187 formed by connection of 2 trains having lengths of 700-740, 700-740, and masses of 3500-4000, 3500-4000, running all in G brake mode and performing a T-EB









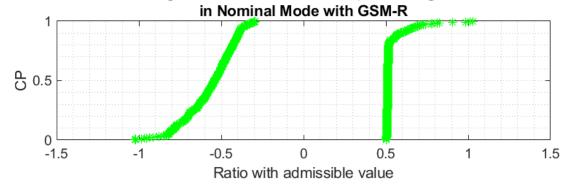
MAke RAil The HOpe for protecting Nature 2 future OPERATION

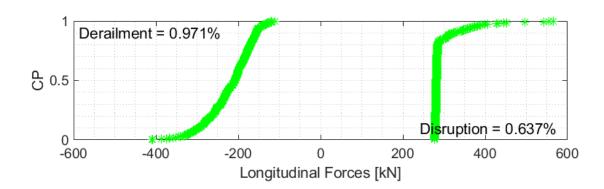




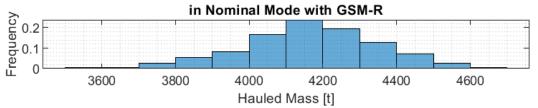
## 3T - 1000 m

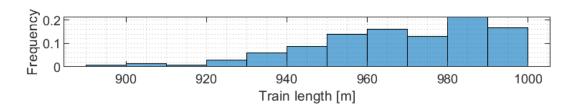
3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1601-2500, 1201-1600, 801-120 running all in G brake mode and performing a T-EB

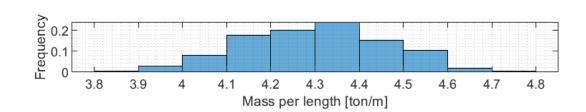




## 3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1601-2500, 1201-1600, 801-1200, running all in G brake mode and performing a T-EB









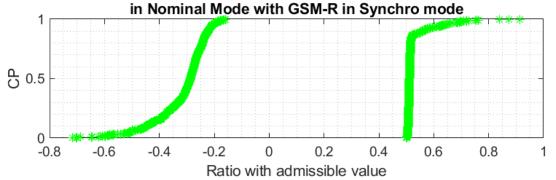
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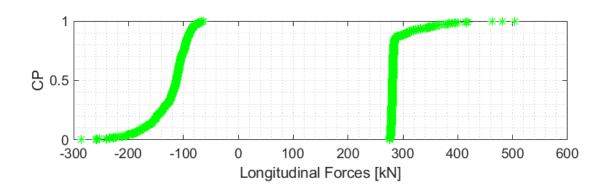




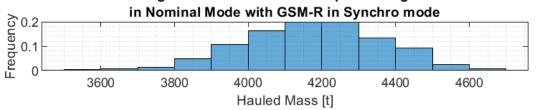
## 3T - 1000 m

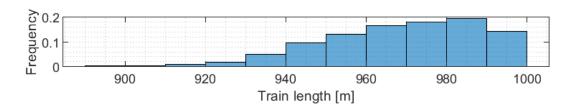
3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1601-2500, 1201-1600, 801-120 running all in G brake mode and performing a T-EB

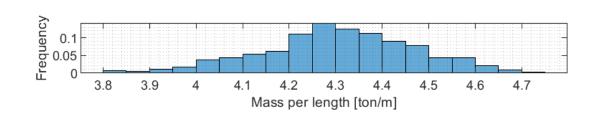




## 3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1601-2500, 1201-1600, 801-1200, running all in G brake mode and performing a T-EB









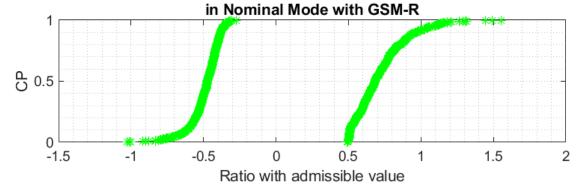
MAke RAil The HOpe for protecting Nature 2 future OPERATION

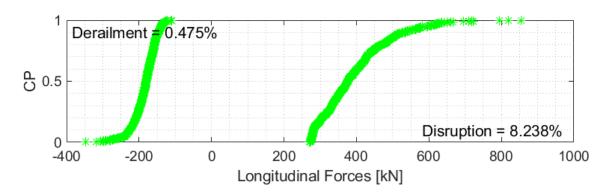




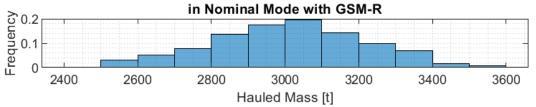
#### 3T - 1000 m

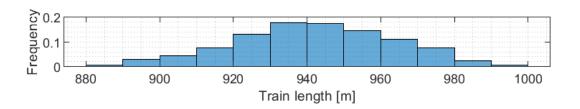
3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1201-1600, 801-1200, 0-800, running all in G brake mode and performing a T-EB

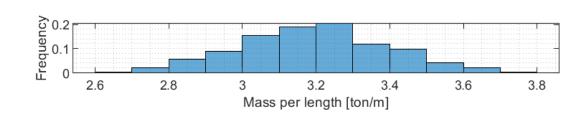




3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1201-1600, 801-1200, 0-800, running all in G brake mode and performing a T-EB









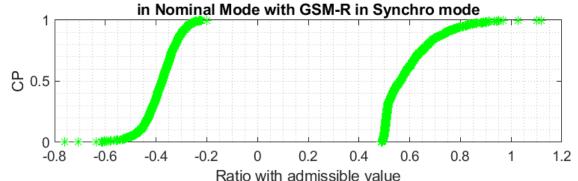
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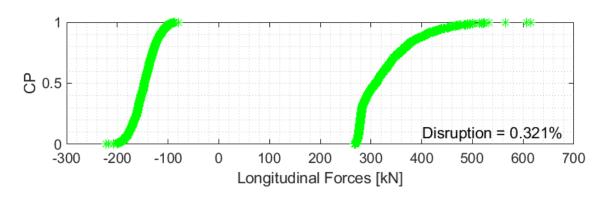




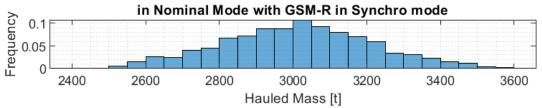
#### 3T - 1000 m

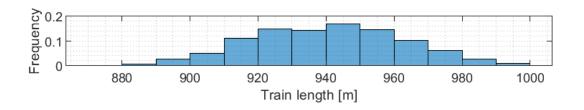
3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1201-1600, 801-1200, 0-800, running all in G brake mode and performing a T-EB

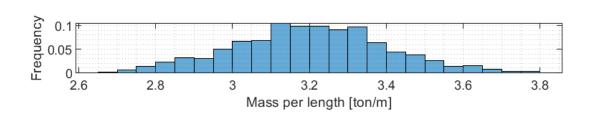




3T with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1201-1600, 801-1200, 0-800, running all in G brake mode and performing a T-EB







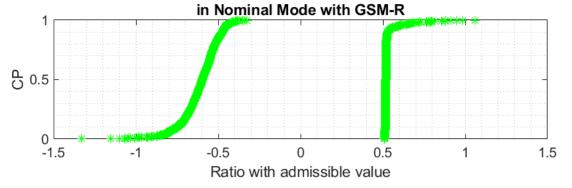


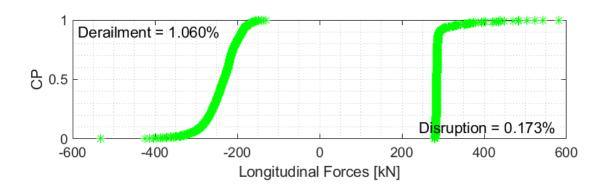
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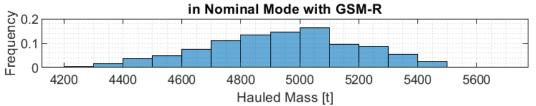


3T with loco BR187 formed by connection of 3 trains having lengths of 360-400, 360-400, 360-400, and masses of 1601-2500, 1601-2500, 801-120 running all in G brake mode and performing a T-EB

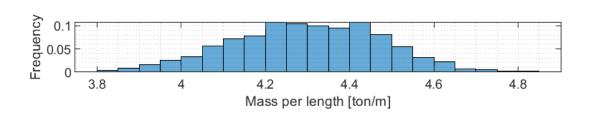




# 3T with loco BR187 formed by connection of 3 trains having lengths of 360-400, 360-400, 360-400, and masses of 1601-2500, 1601-2500, 801-1200, running all in G brake mode and performing a T-EB







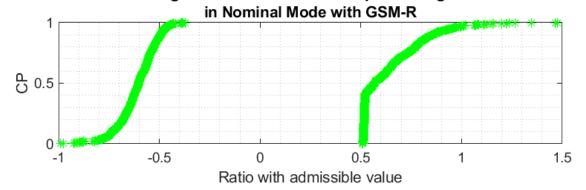


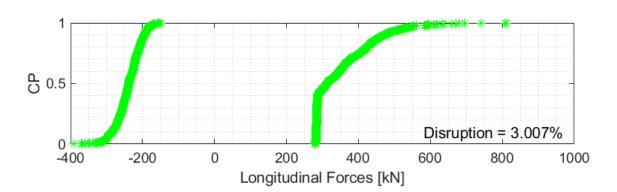
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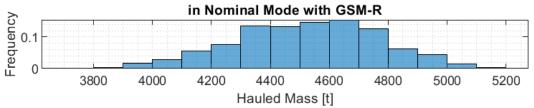


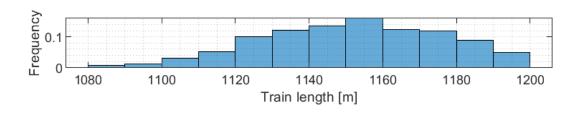
3T with loco BR187 formed by connection of 3 trains having lengths of 360-400, 360-400, 360-400, and masses of 1601-2500, 1601-2500, 0-800 running all in G brake mode and performing a T-EB

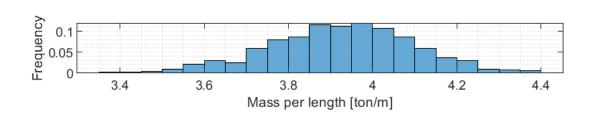




3T with loco BR187 formed by connection of 3 trains having lengths of 360-400, 360-400, 360-400, and masses of 1601-2500, 1601-2500, 0-800, running all in G brake mode and performing a T-EB







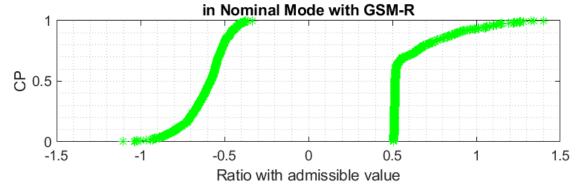


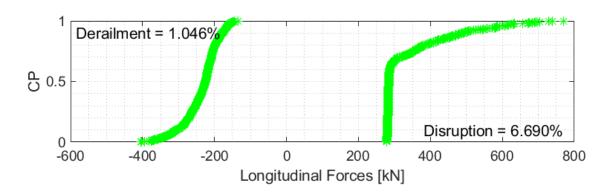
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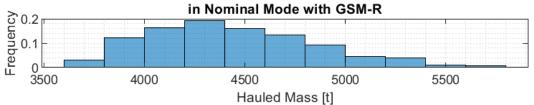


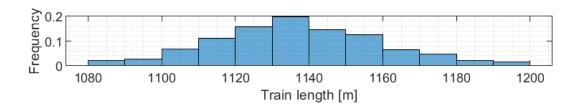
3T with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 160-200, and masses of 1601-2500, 1601-2500, 0-800 running all in G brake mode and performing a T-EB

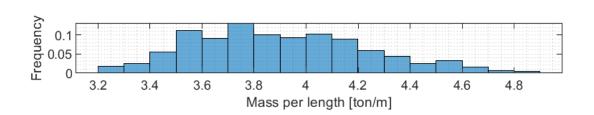




3T with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 160-200, and masses of 1601-2500, 1601-2500, 0-800, running all in G brake mode and performing a T-EB







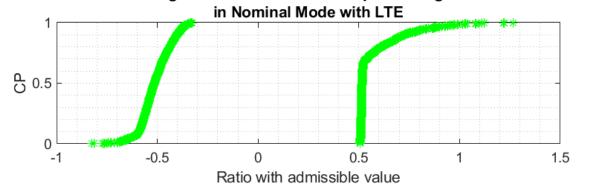


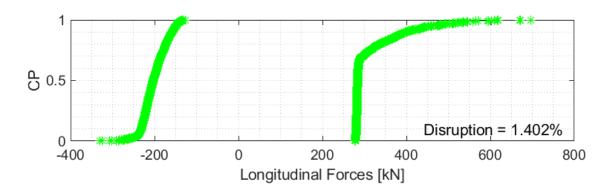
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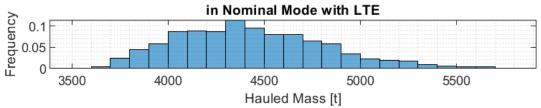


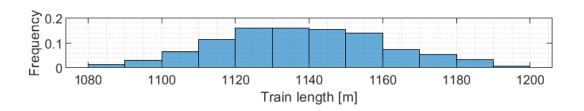
3T with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 160-200, and masses of 1601-2500, 1601-2500, 0-800 running all in G brake mode and performing a T-EB

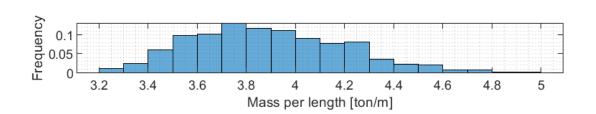




3T with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 160-200, and masses of 1601-2500, 1601-2500, 0-800, running all in G brake mode and performing a T-EB







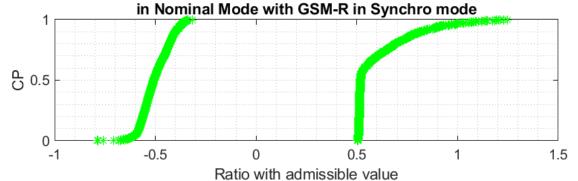


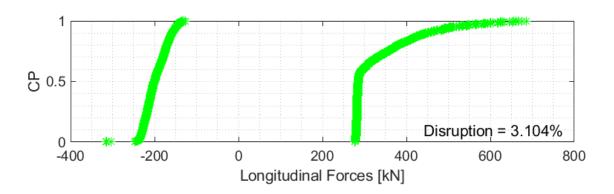
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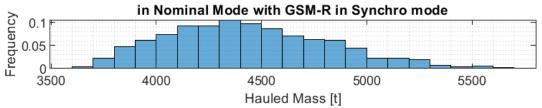


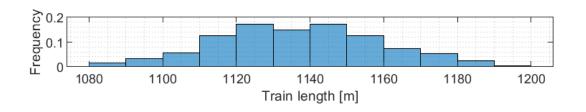
3T with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 160-200, and masses of 1601-2500, 1601-2500, 0-800 running all in G brake mode and performing a T-EB

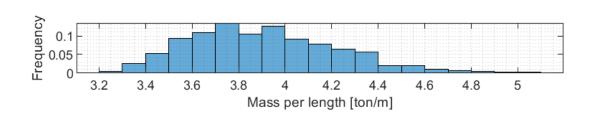




3T with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 160-200, and masses of 1601-2500, 1601-2500, 0-800, running all in G brake mode and performing a T-EB







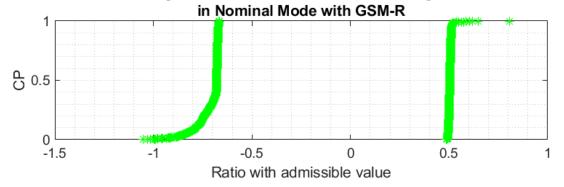


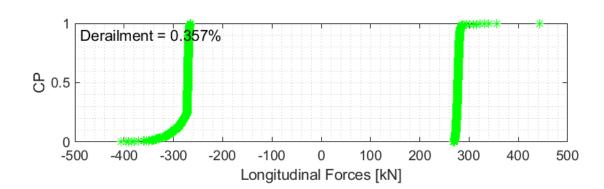
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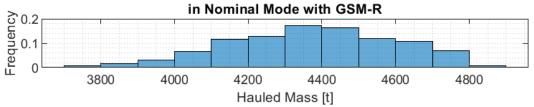


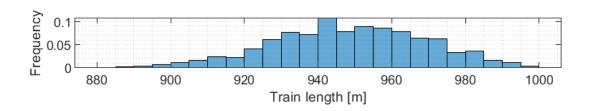
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 293-333, 293-333, 293-333, and masses of 1201-1600, 1201-1600, 1201-16 running all in G brake mode and performing a T-EB

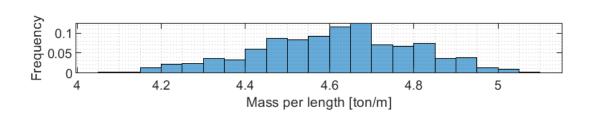




### 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 293-333, 293-333, 293-333, and masses of 1201-1600, 1201-1600, running all in G brake mode and performing a T-EB







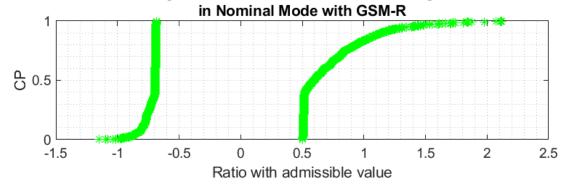


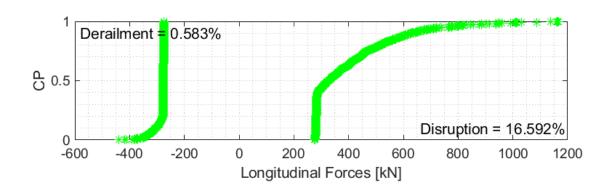
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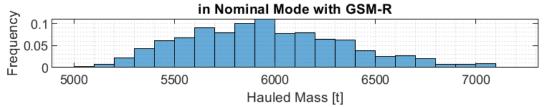


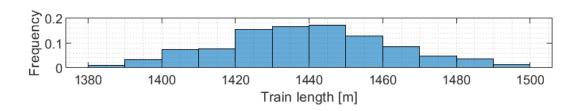
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

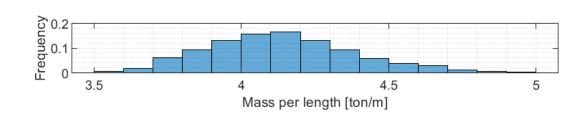




# 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







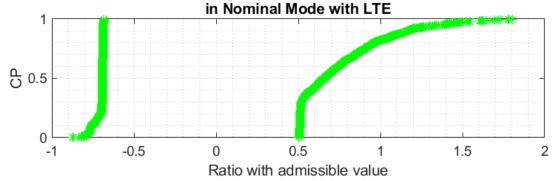


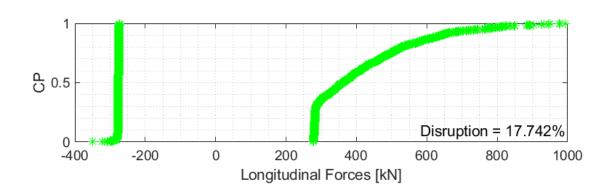
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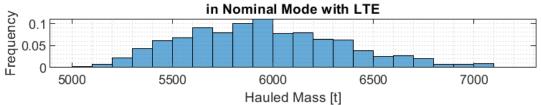


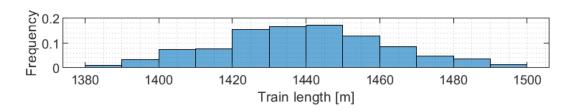
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

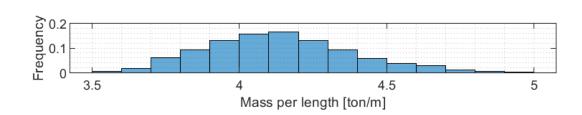




## 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







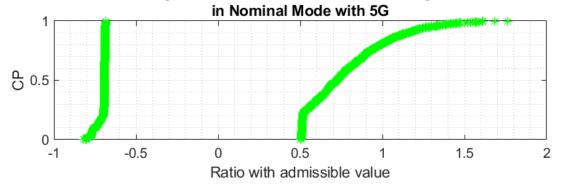


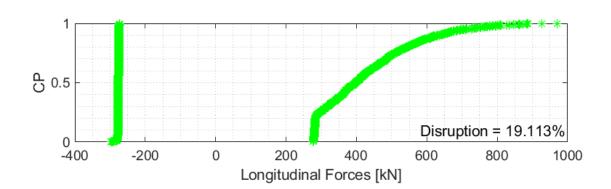
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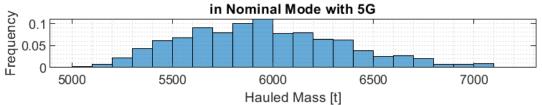


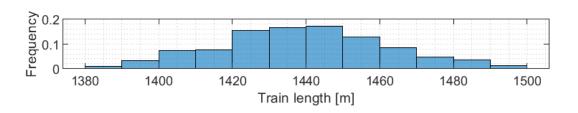
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

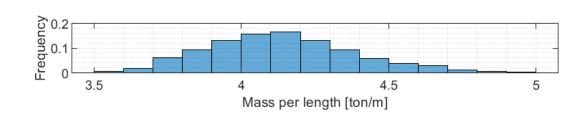




### 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







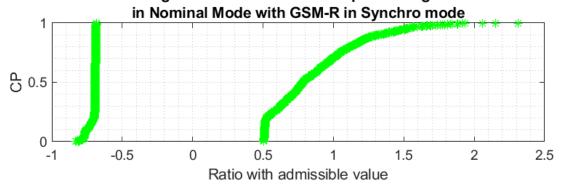


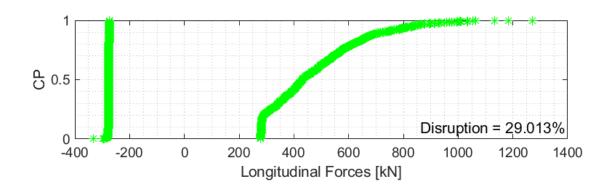
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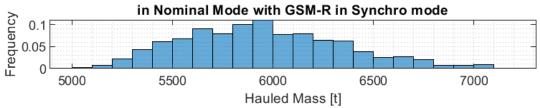


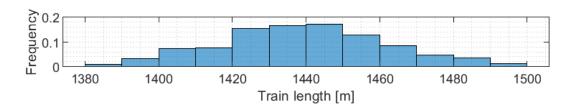
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

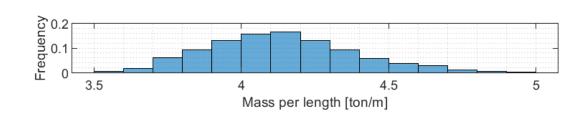




3T-SW with loco BR187 formed by connection of 3 trains having lengths of 440-480, 460-500, 480-520, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB







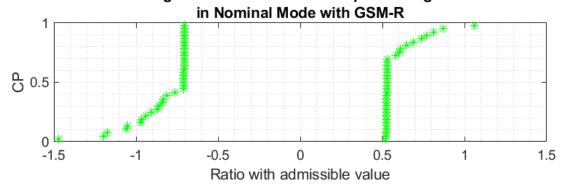


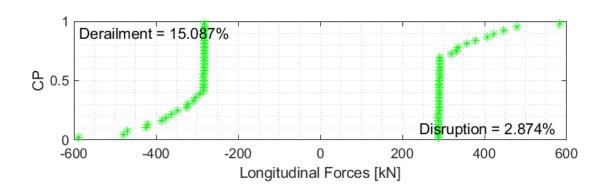
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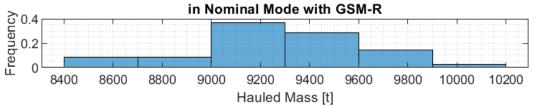


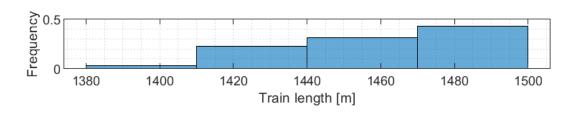
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-55 running all in G brake mode and performing a T-EB

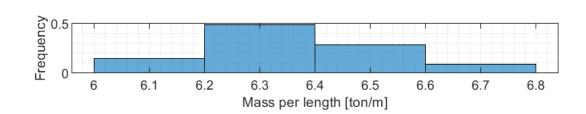




## 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, running all in G brake mode and performing a T-EB







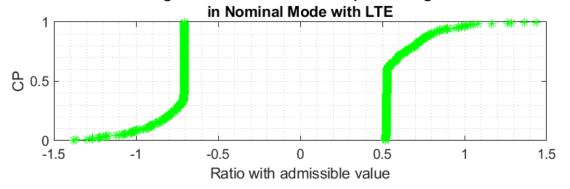


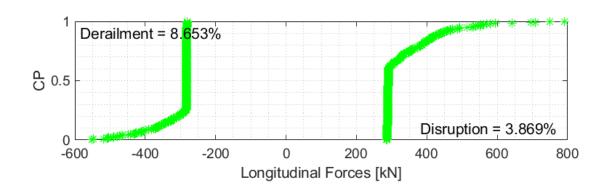
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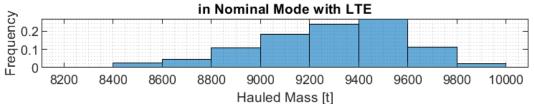


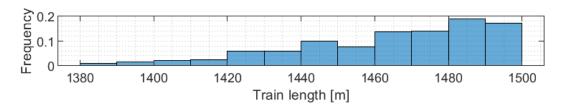
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-55 running all in G brake mode and performing a T-EB

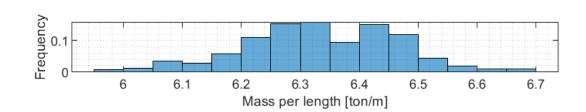




# 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-5500 running all in G brake mode and performing a T-EB







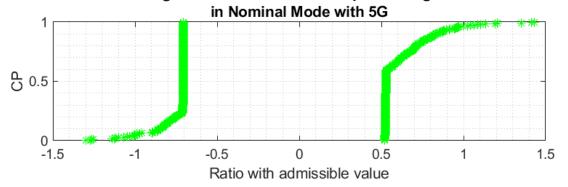


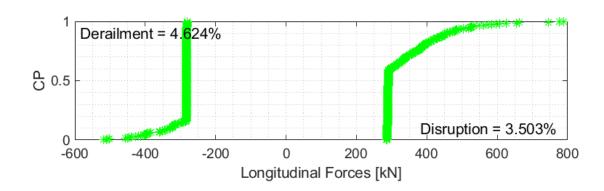
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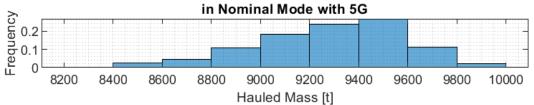


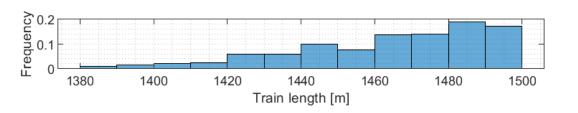
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-55 running all in G brake mode and performing a T-EB

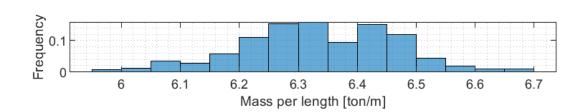




# 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-5500 running all in G brake mode and performing a T-EB







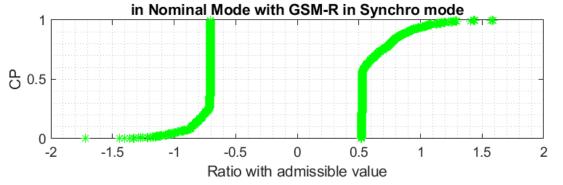


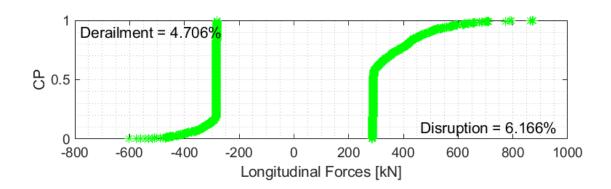
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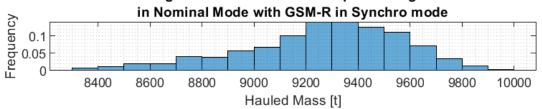


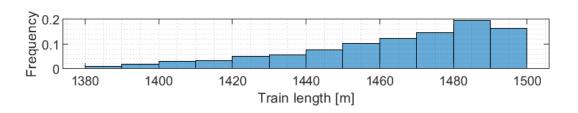
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-55 running all in G brake mode and performing a T-EB

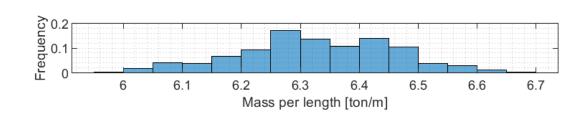




3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 2501-5500, 2501-5500, 2501-5500 running all in G brake mode and performing a T-EB







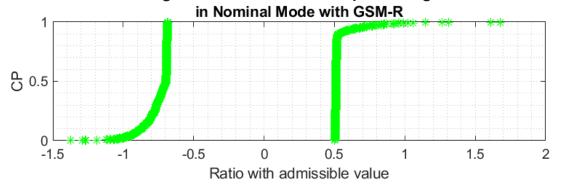


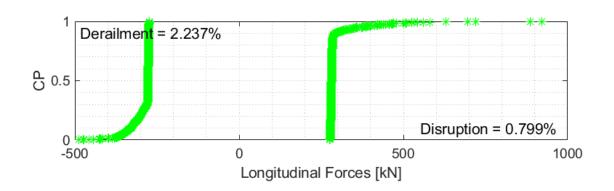
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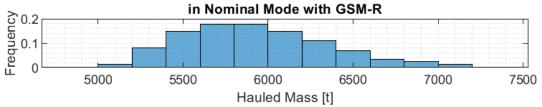


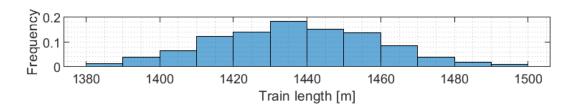
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

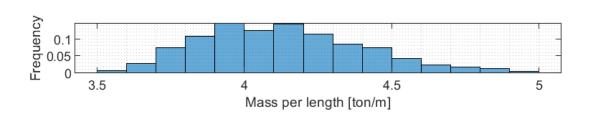




### 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







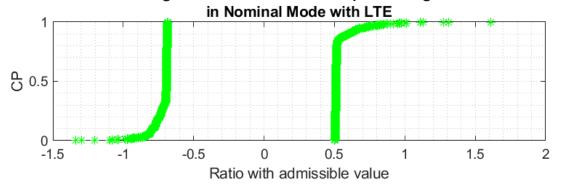


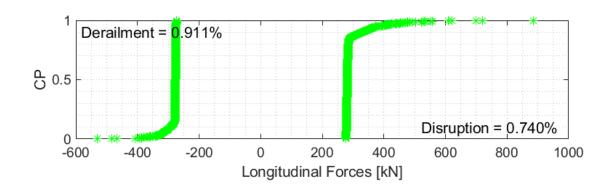
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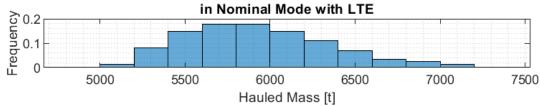


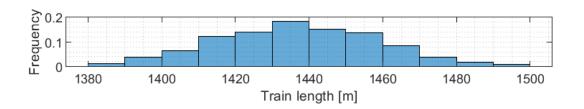
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

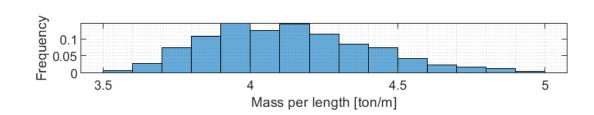




### 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, running all in G brake mode and performing a T-EB







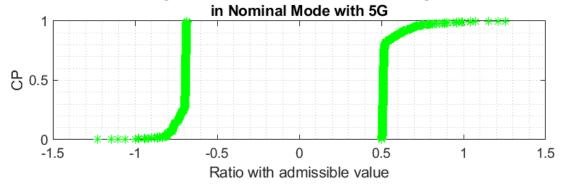


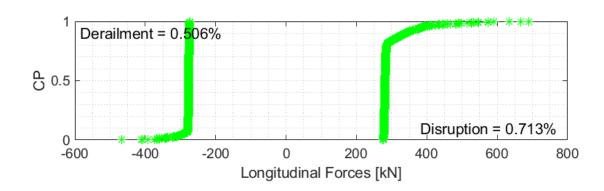
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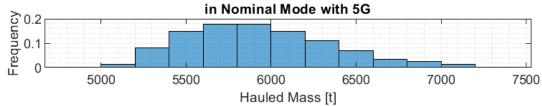


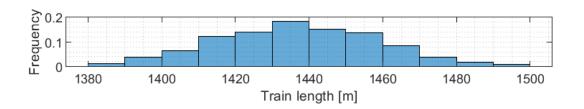
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

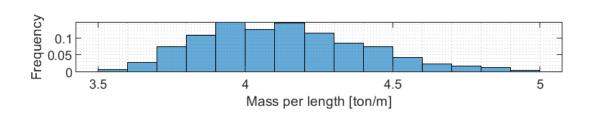




# 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







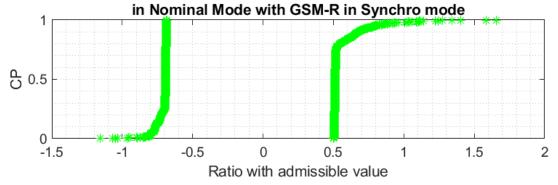


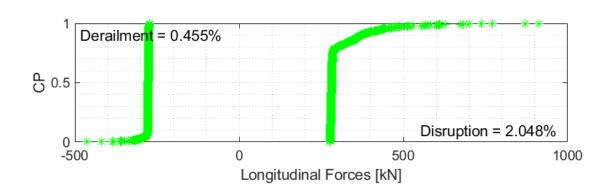
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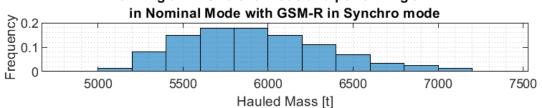


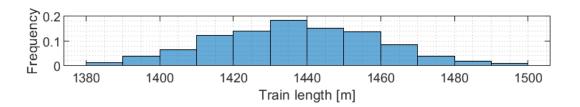
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

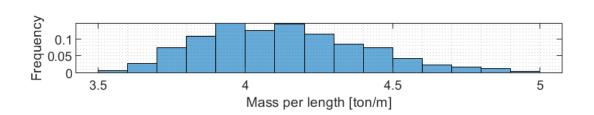




### 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







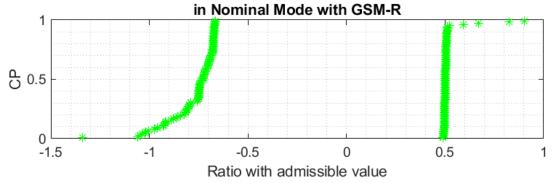


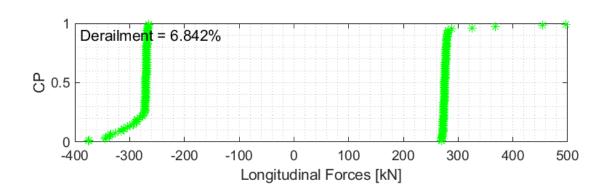
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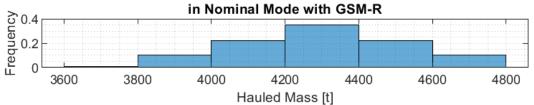


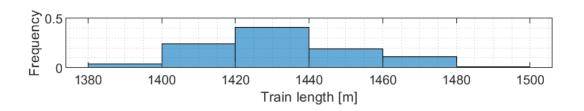
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-16 running all in G brake mode and performing a T-EB

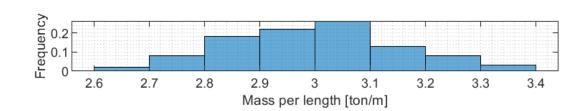




## 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, running all in G brake mode and performing a T-EB







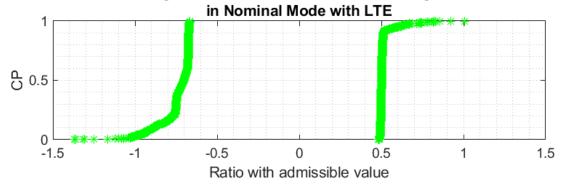


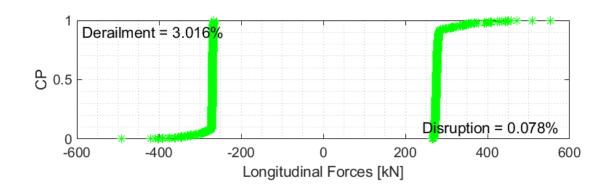
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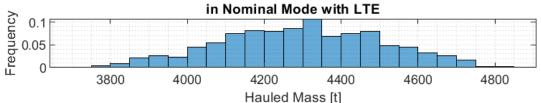


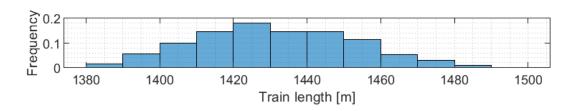
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-16 running all in G brake mode and performing a T-EB

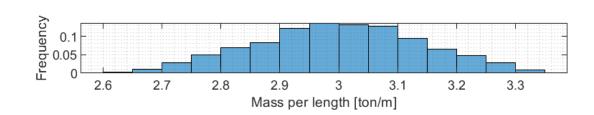




## 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-1600 running all in G brake mode and performing a T-EB







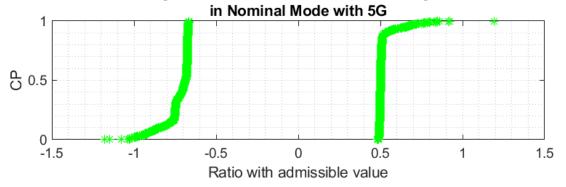


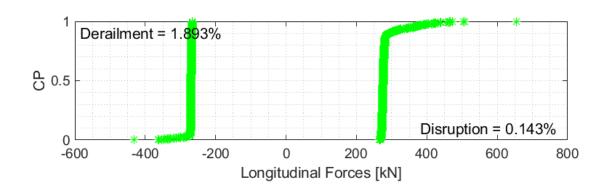
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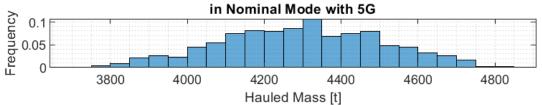


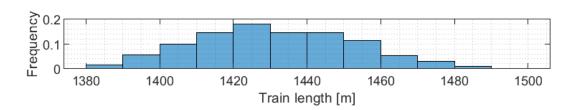
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-16 running all in G brake mode and performing a T-EB

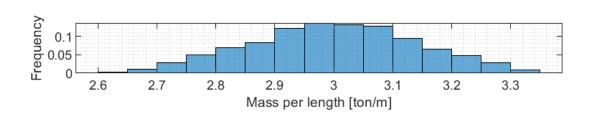




# 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-1600 running all in G brake mode and performing a T-EB







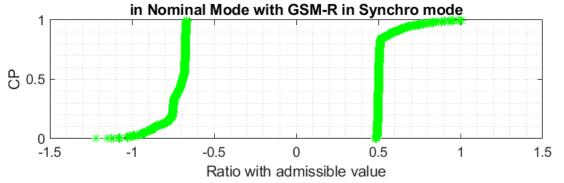


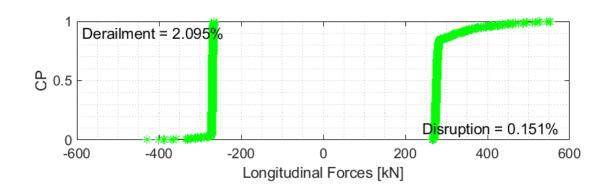
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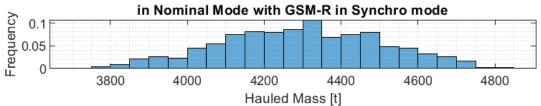


3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-16 running all in G brake mode and performing a T-EB

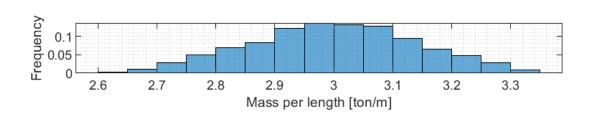




3T-SW with loco BR187 formed by connection of 3 trains having lengths of 460-500, 460-500, 460-500, and masses of 1201-1600, 1201-1600, 1201-1600 running all in G brake mode and performing a T-EB







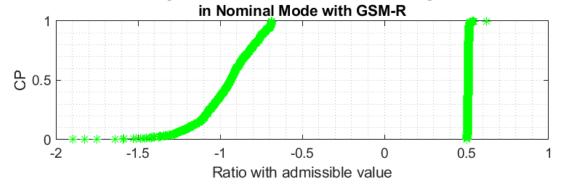


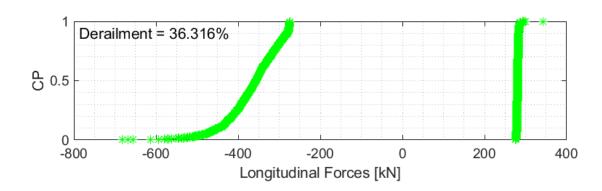
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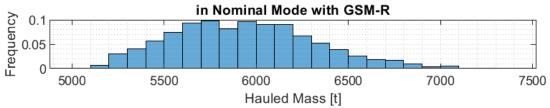


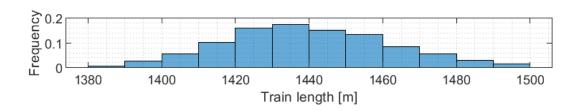
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

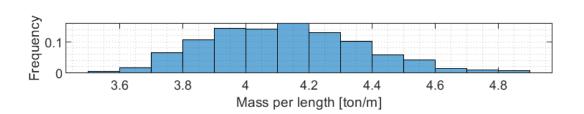




3T-SW with loco BR187 formed by connection of 3 trains having lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







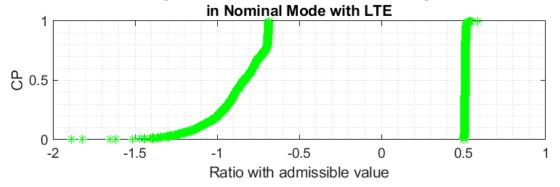


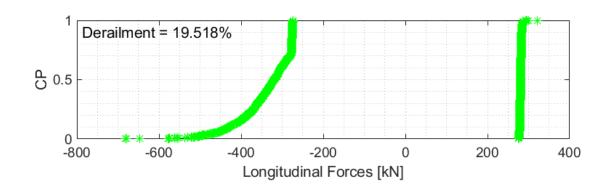
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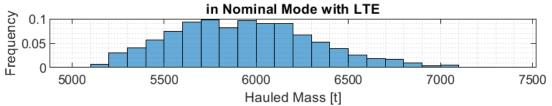


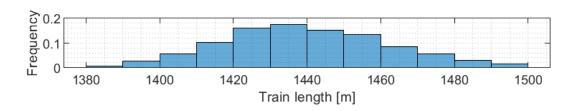
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

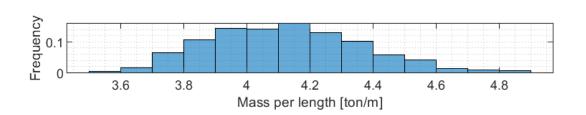




# 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







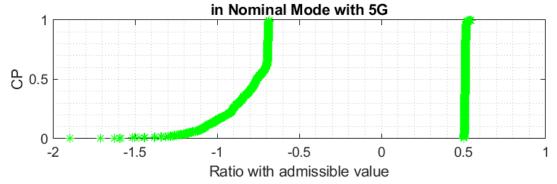


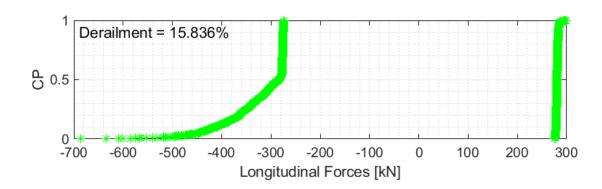
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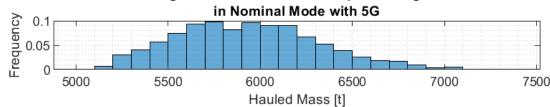


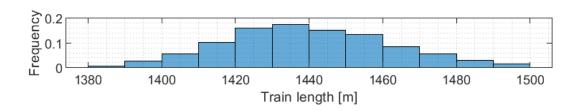
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

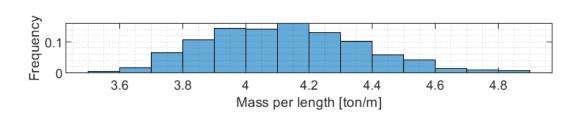




3T-SW with loco BR187 formed by connection of 3 trains having lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







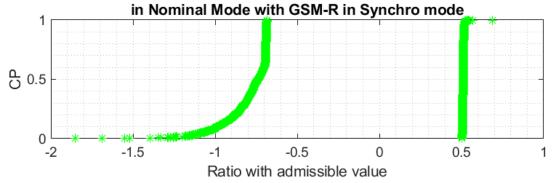


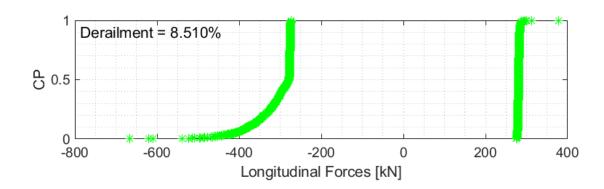
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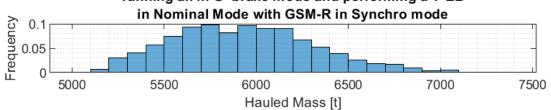


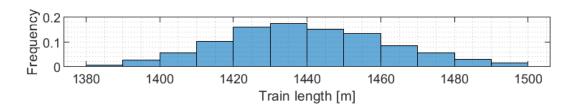
3T-SW with loco BR187 formed by connection of 3 trains naving lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-25 running all in G brake mode and performing a T-EB

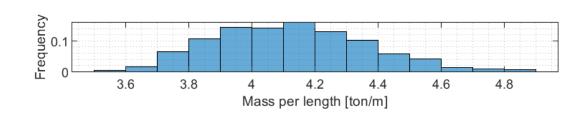




## 3T-SW with loco BR187 formed by connection of 3 trains having lengths of 480-520, 460-500, 440-480, and masses of 1601-2500, 1601-2500, 1601-2500 running all in G brake mode and performing a T-EB







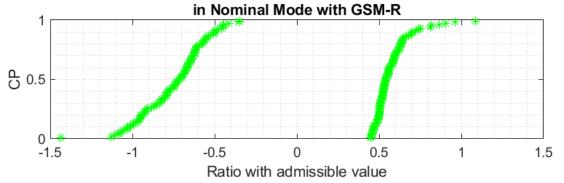


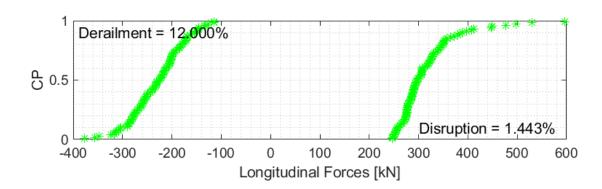
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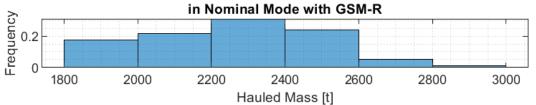


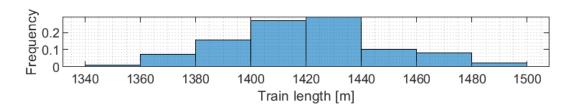
4T with loco BR187 formed by connection of 4 trains aving lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800, 0-4 running all in G brake mode and performing a T-EB

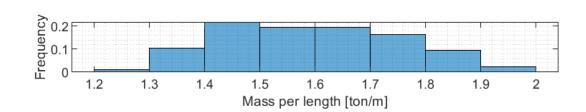




4T with loco BR187 formed by connection of 4 trains having lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800 running all in G brake mode and performing a T-EB







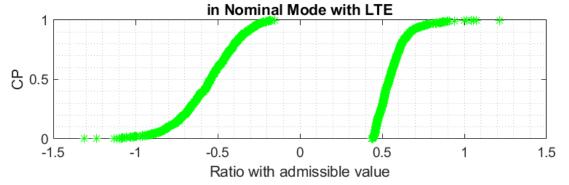


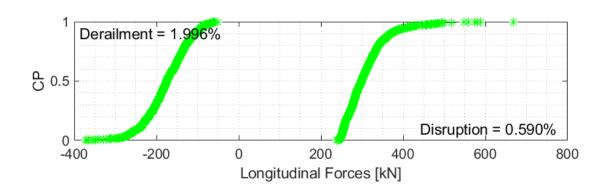
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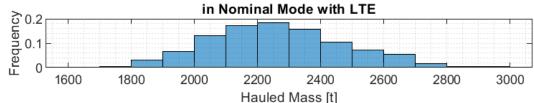


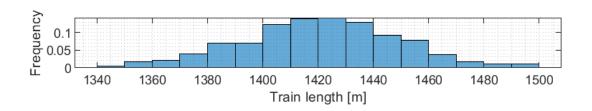
4T with loco BR187 formed by connection of 4 trains aving lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800, 0-4 running all in G brake mode and performing a T-EB

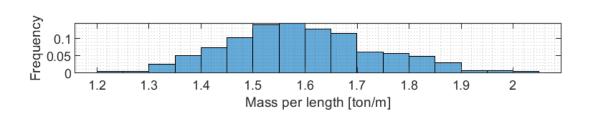




# 4T with loco BR187 formed by connection of 4 trains having lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800 running all in G brake mode and performing a T-EB







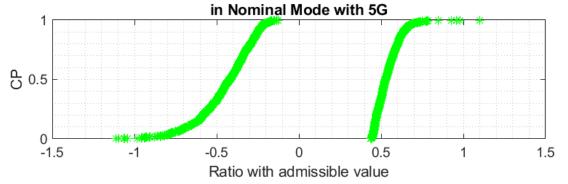


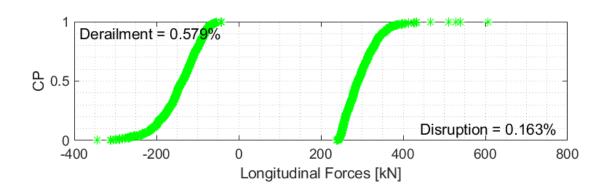
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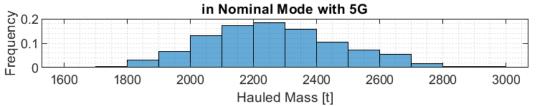


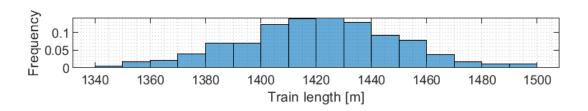
4T with loco BR187 formed by connection of 4 trains aving lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800, 0-4 running all in G brake mode and performing a T-EB

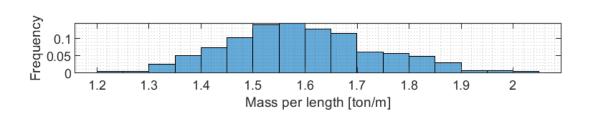




# 4T with loco BR187 formed by connection of 4 trains having lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800 running all in G brake mode and performing a T-EB







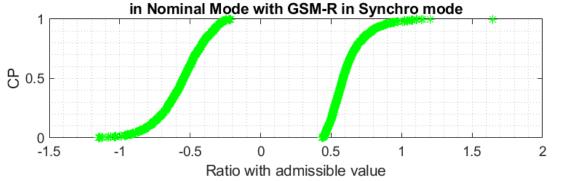


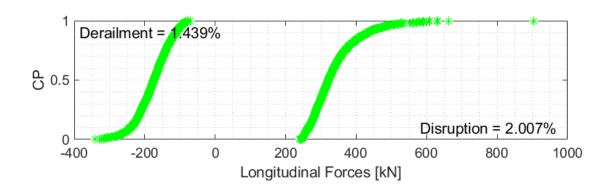
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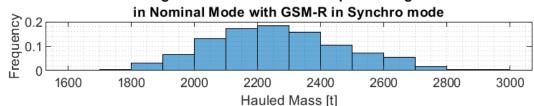


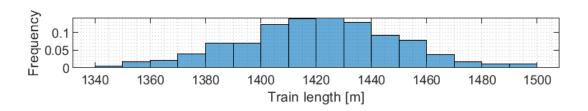
4T with loco BR187 formed by connection of 4 trains aving lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800, 0-4 running all in G brake mode and performing a T-EB

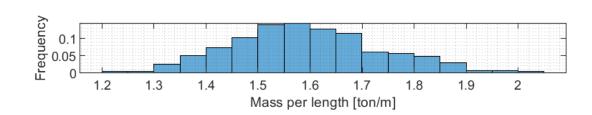




4T with loco BR187 formed by connection of 4 trains having lengths of 335-375, 335-375, 335-375, 335-375, and masses of 0-800, 0-800, 0-800 running all in G brake mode and performing a T-EB







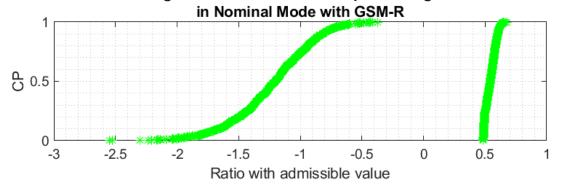


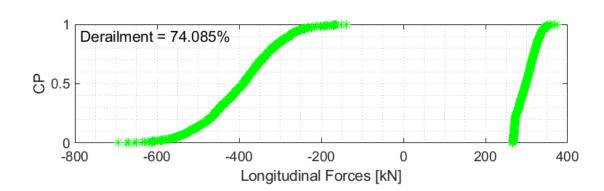
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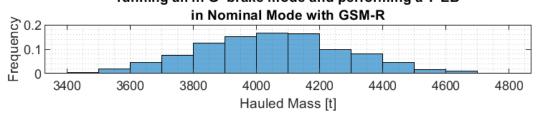


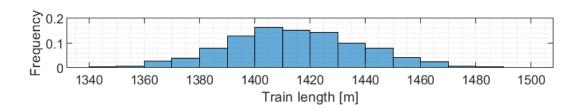
4T with loco BR187 formed by connection of 4 trains engths of 410-450, 360-400, 310-350, 260-300, and masses of 801-1200, 801-1200, 801-1200 running all in G brake mode and performing a T-EB

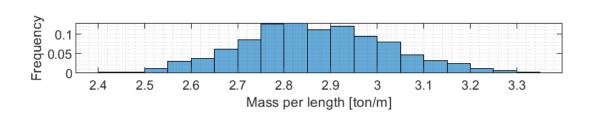




### 4T with loco BR187 formed by connection of 4 trains g lengths of 410-450, 360-400, 310-350, 260-300, and masses of 801-1200, 8







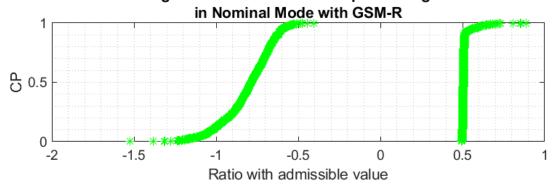


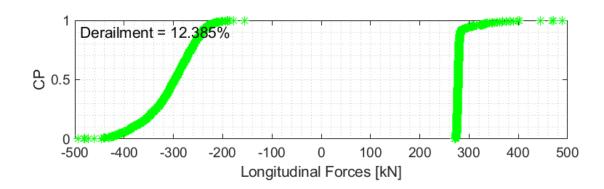
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4T with loco BR187 formed by connection of 4 trains lengths of 485-525, 385-425, 285-325, 185-225, and masses of 1601-2500, 1201-1600, 801-12 running all in G brake mode and performing a T-EB

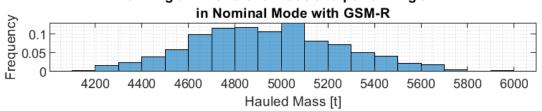


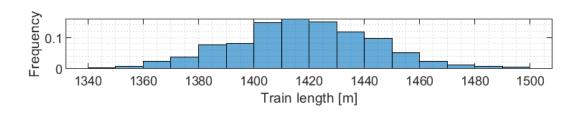


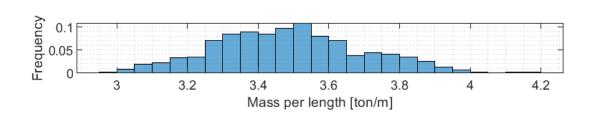
4T with loco BR187 formed by connection of 4 trains

1g lengths of 485-525, 385-425, 285-325, 185-225, and masses of 1601-2500, 1201-1600, 801-1200

1g running all in G brake mode and performing a T-EB







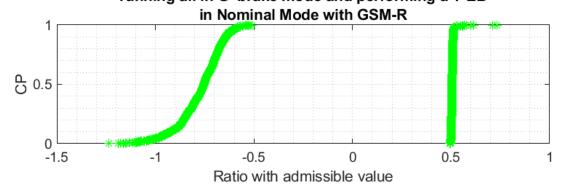


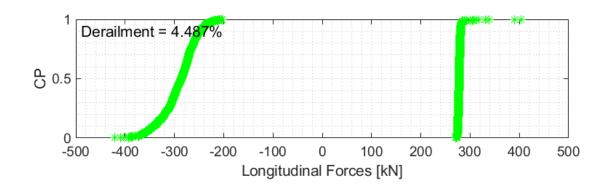
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4T with loco BR187 formed by connection of 4 trains lengths of 500-540, 390-430, 280-320, 170-210, and masses of 1601-2500, 1201-1600, 801-12 running all in G brake mode and performing a T-EB

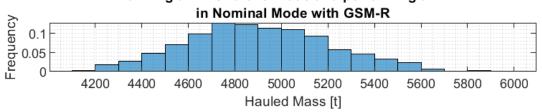


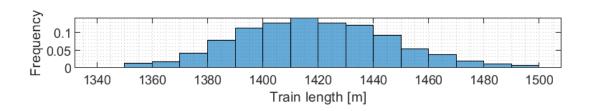


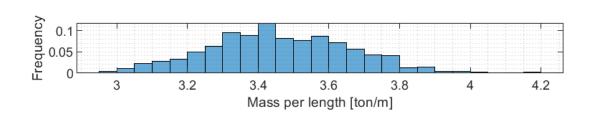
4T with loco BR187 formed by connection of 4 trains

1g lengths of 500-540, 390-430, 280-320, 170-210, and masses of 1601-2500, 1201-1600, 801-1200

running all in G brake mode and performing a T-EB







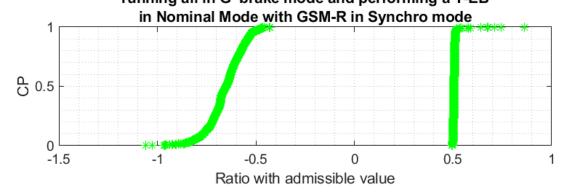


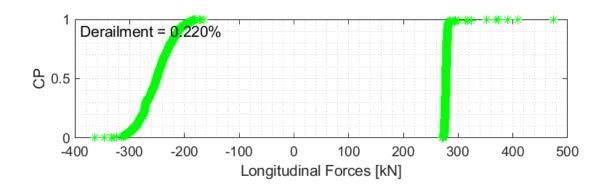
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4T with loco BR187 formed by connection of 4 trains lengths of 500-540, 390-430, 280-320, 170-210, and masses of 1601-2500, 1201-1600, 801-12 running all in G brake mode and performing a T-EB

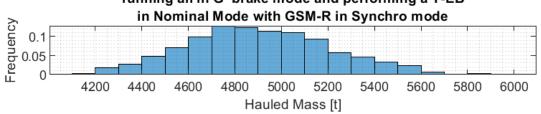


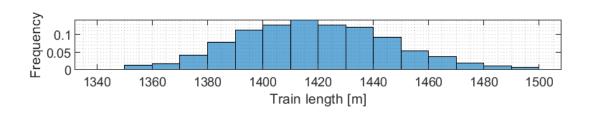


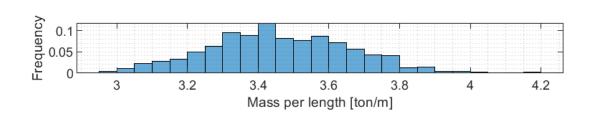
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