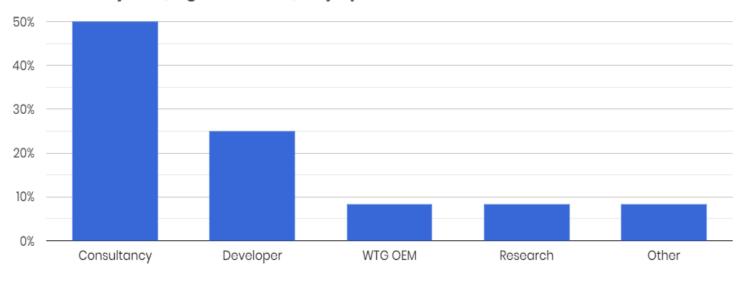
Results of the questionnaire

Annex A Results of the questionnaire

Figure A-1. Results of the questionnaire – Question 1

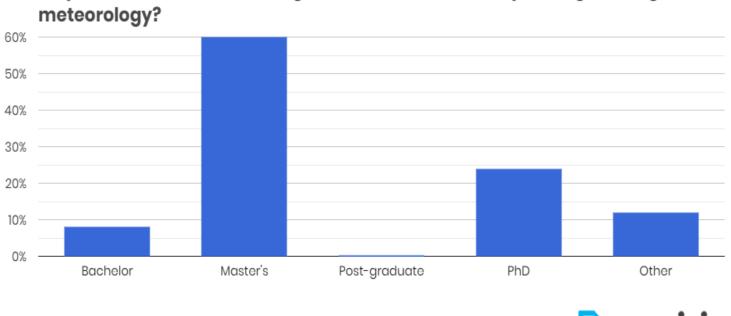


What is your (organization's) key operation area?

n = 24

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Figure A-2. Results of the questionnaire – Question 2

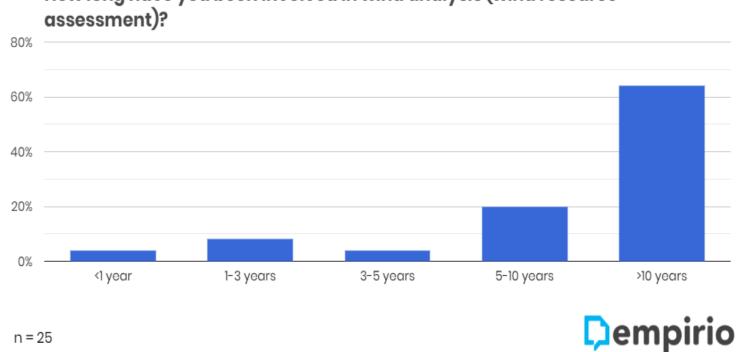


Do you have an academic degree related to wind analysis/engineering/ meteorology?

n = 25



Figure A-3. Results of the questionnaire – Question 3



How long have you been involved in wind analysis (wind resource

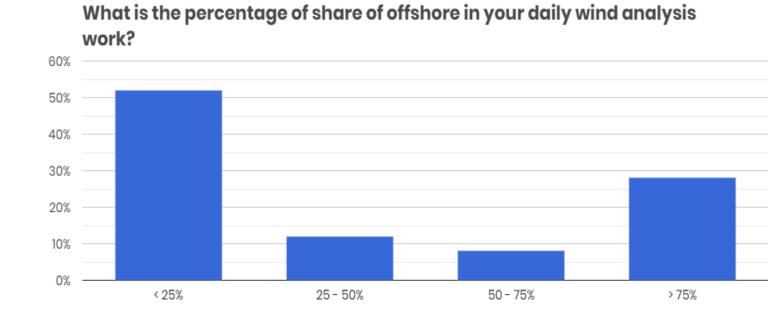
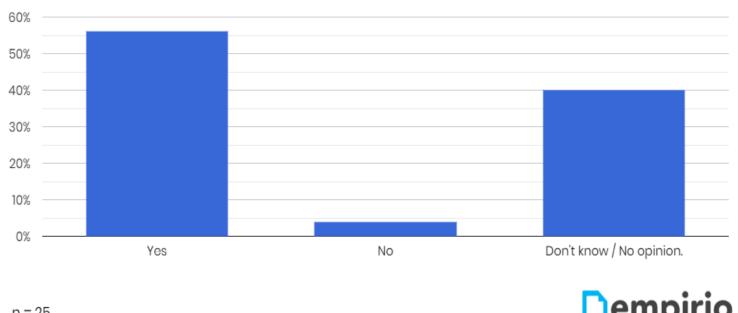


Figure A-4. Results of the questionnaire – Question 4

n = 25



Figure A-5. Results of the questionnaire – Question 5

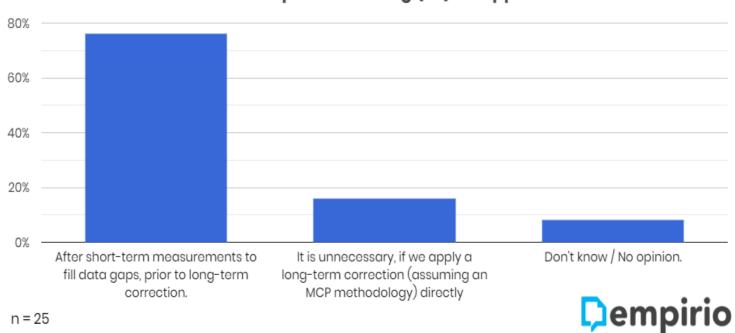


Do we need new methods to mitigate data gaps in FLS measurements?

n = 25

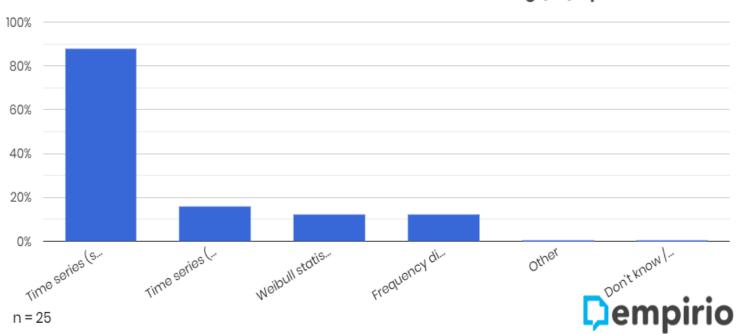


Figure A-6. Results of the questionnaire – Question 6



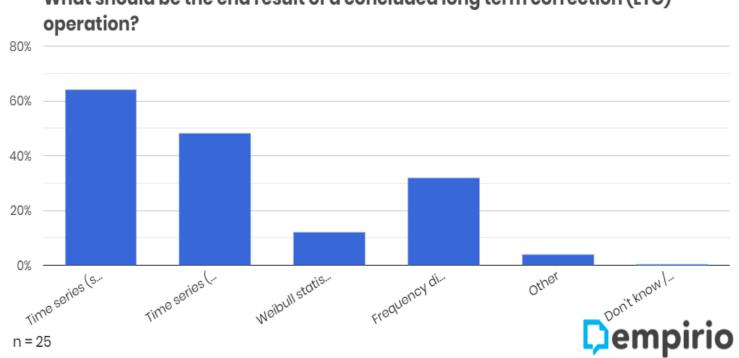
When should an interim step of data filling (DF) be applied?

Figure A-7. Results of the questionnaire – Question 7



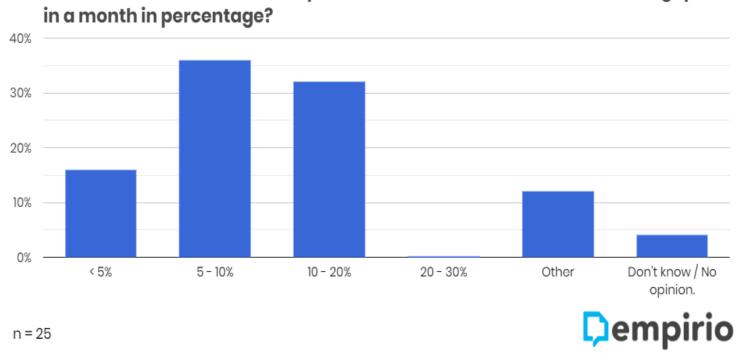
What should be the end result of a concluded data filling (DF) operation?

Figure A-8. Results of the questionnaire – Question 8



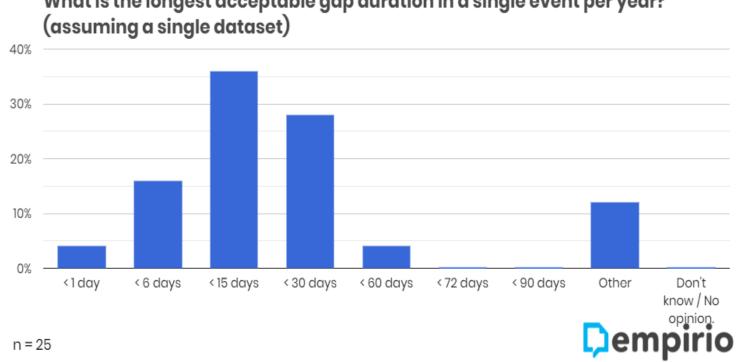
What should be the end result of a concluded long term correction (LTC)

Figure A-9. Results of the questionnaire – Question 9



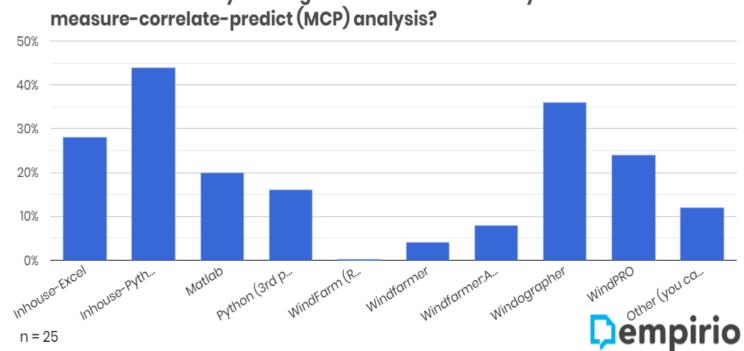
What would be the maximum permissible value for a cumulative data gap

Figure A-10. Results of the questionnaire – Question 10



What is the longest acceptable gap duration in a single event per year?

Figure A-11. Results of the questionnaire – Question 11



Which software are you using as a stand-alone tool in your workflow for

Figure A-12. Results of the questionnaire – Question 12

Please specify/comment freely on software/tools if you want to share details (or skip).

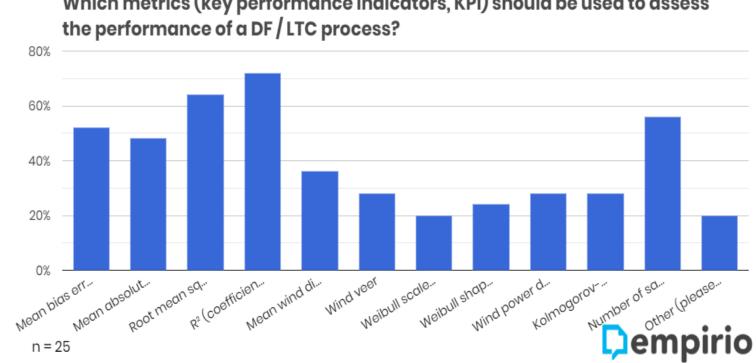
built purpose software LTC analyses with performing web source exclusively none not We too Vortex interface veloped coded myself use base python a nhouse/MCP a Internally analysis as

n = 6

Source: Author's own illustration

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Figure A-13. Results of the questionnaire – Question 13



Which metrics (key performance indicators, KPI) should be used to assess

Figure A-14. Results of the questionnaire – Question 14

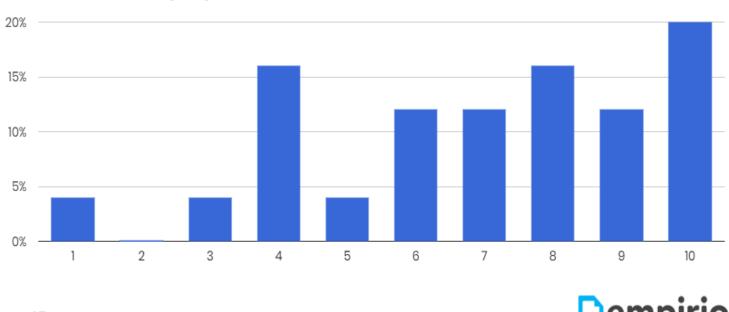
What would be an additional metric for a data-filling /LTC process? (optional, skip if N/A)

reconstruction measurement captures curve regime uncertaintv curves) processing matters reference location content (theoretical) (maybe longterm that ie long ^{intra} be check' Detailed having How conducted impact for Final term with assessed gained ws is same real speed choice matched (from metric production Number several their and not investigate it me datafilling should if То nearby corrected can ^{energy} or then process period only approach All well filling substantial datafiling wind inter(with source confidence more LTMOMM compared correction use comp measurements) points short using turbine corrections 'synthesis overlapping resulting

n = 7



Figure A-15. Results of the questionnaire – Question 15

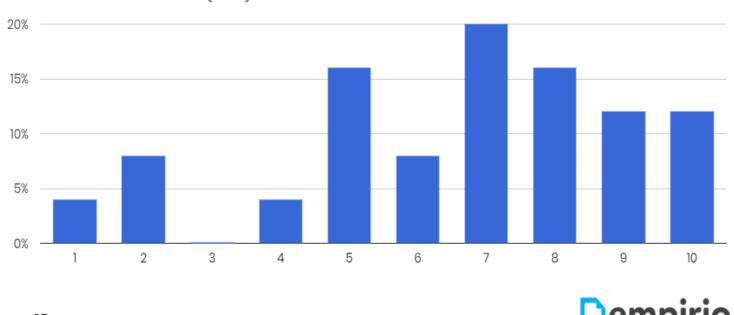


Mean bias error (MBE)

n = 25



Figure A-16. Results of the questionnaire – Question 16

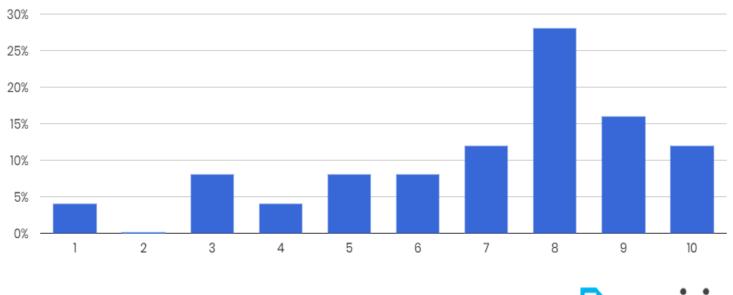


Mean absolute error (MAE)

n = 25

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Figure A-17. Results of the questionnaire – Question 17

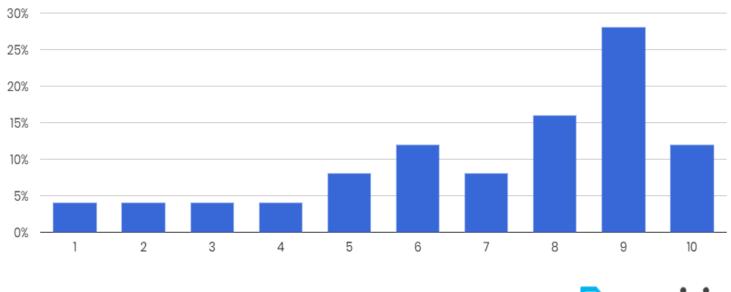


Root mean square error (RMSE)

n = 25



Figure A-18. Results of the questionnaire – Question 18

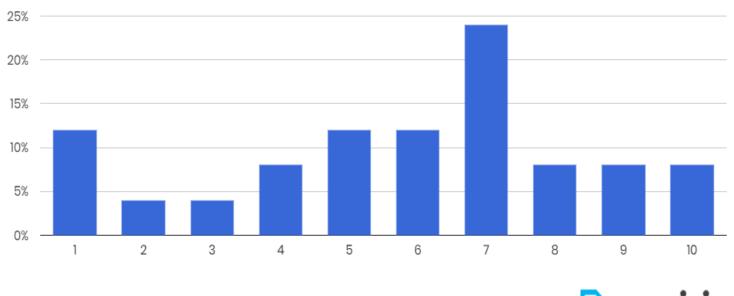


R² (coefficient of determination)

n = 25



Figure A-19. Results of the questionnaire – Question 19

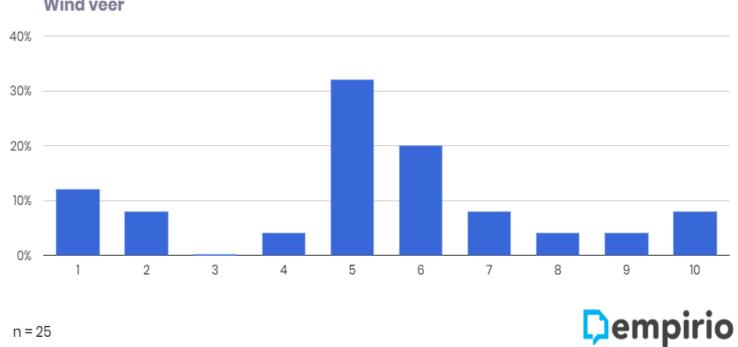


Mean wind direction

n = 25

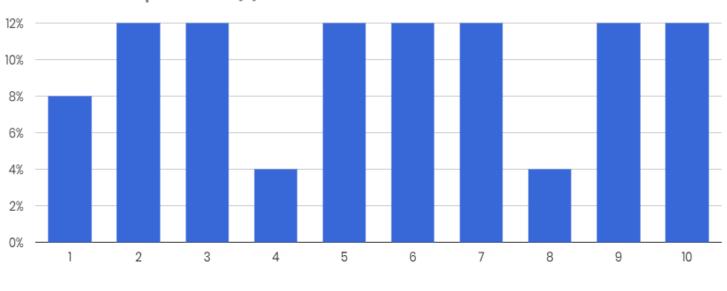
Dempirio

Figure A-20. Results of the questionnaire – Question 20



Wind veer

Figure A-21. Results of the questionnaire – Question 21

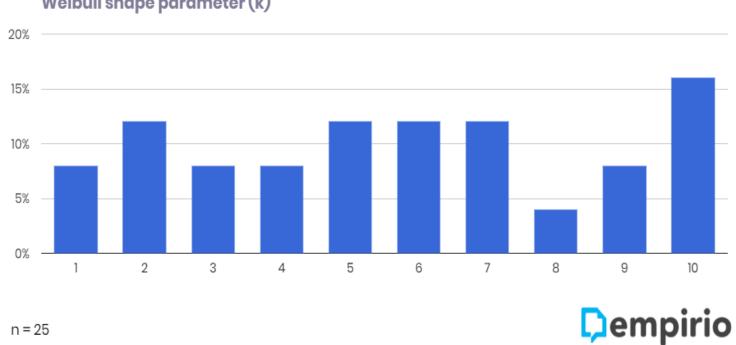


Weibull scale parameter (A)

n = 25

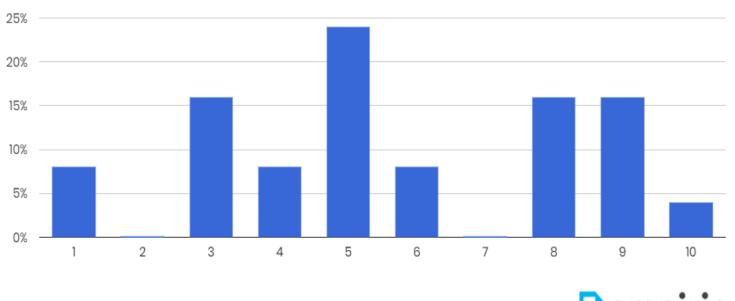


Figure A-22. Results of the questionnaire – Question 22



Weibull shape parameter (k)

Figure A-23. Results of the questionnaire – Question 23

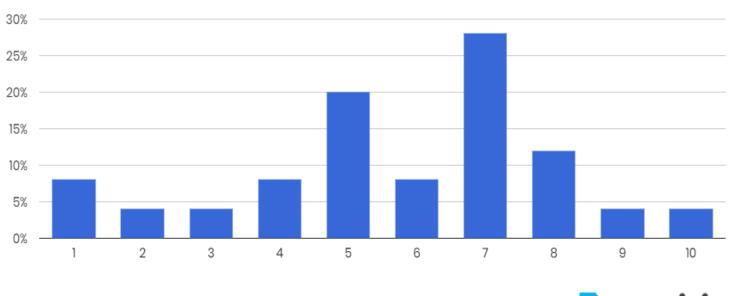


Wind power density

n = 25



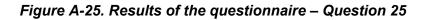
Figure A-24. Results of the questionnaire – Question 24

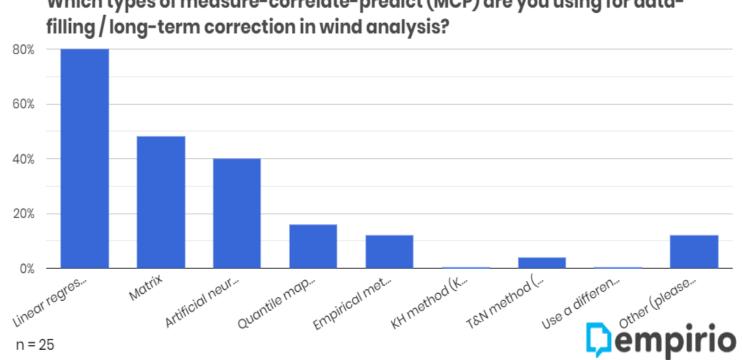


Kolmogorov-Smirnov test statistic regarding wind speed distribution

n = 25





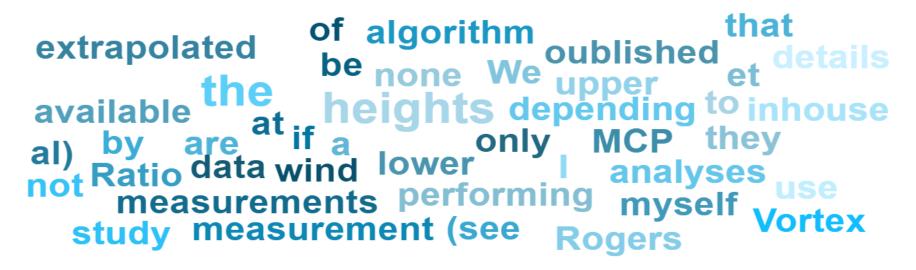


Which types of measure-correlate-predict (MCP) are you using for data-

Results of the questionnaire

Figure A-26. Results of the questionnaire – Question 26

Which "other MCP method" are you using for data-filling / long-term correction in wind analysis?

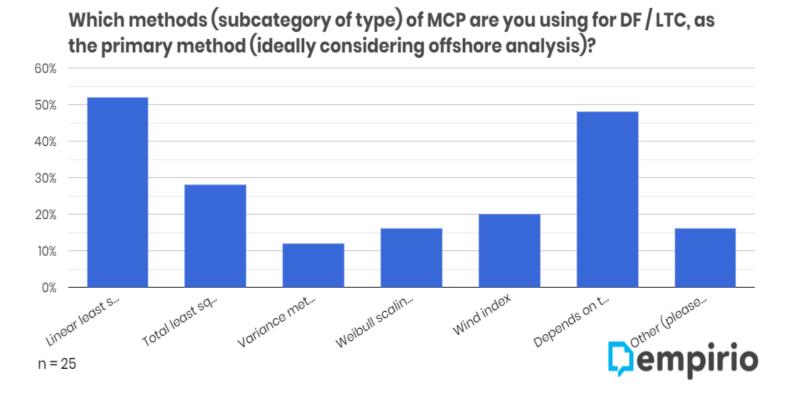


n = 5

Source: Author's own illustration

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Figure A-27. Results of the questionnaire – Question 27



Results of the questionnaire

Figure A-28. Results of the questionnaire – Question 28

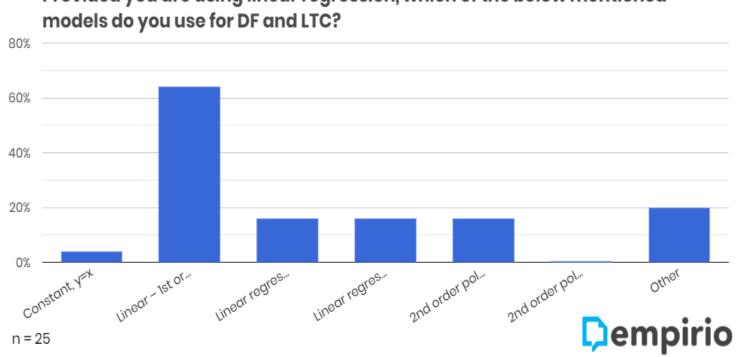
Which other method of MCP are you using for data-filling / LTC ? (optional, skip if N/A)



n = 1



Figure A-29. Results of the questionnaire – Question 29



Provided you are using linear regression, which of the below mentioned

Figure A-30. Results of the questionnaire – Question 30

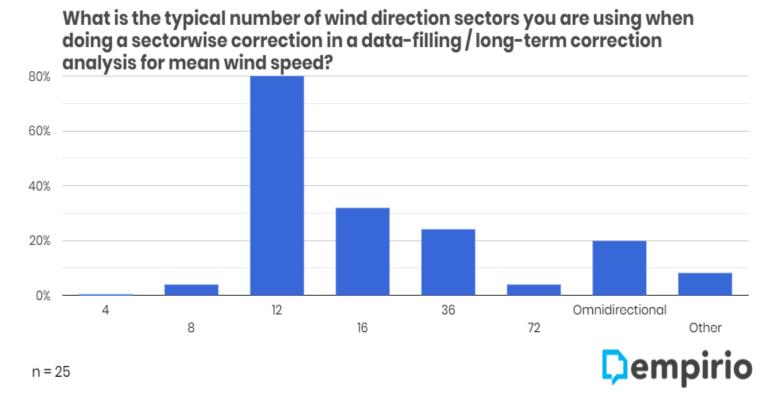
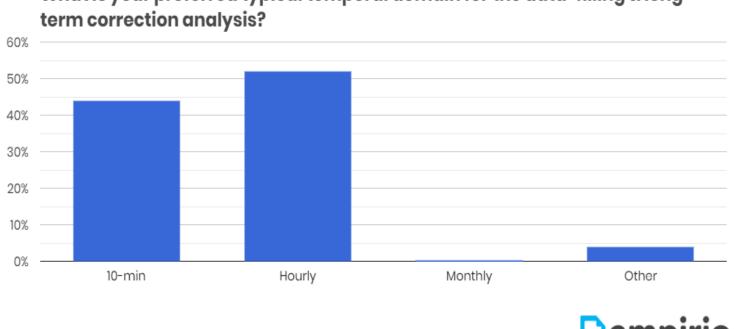


Figure A-31. Results of the questionnaire – Question 31

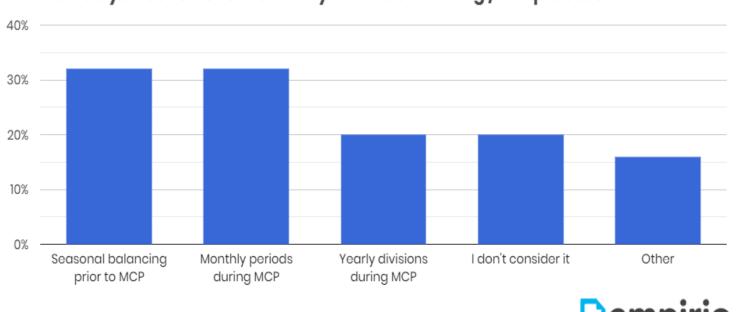


What is your preferred typical temporal domain for the data-filling & long-

n = 25



Figure A-32. Results of the questionnaire – Question 32

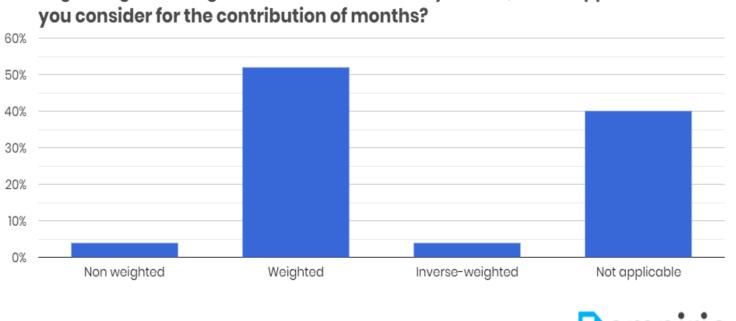


How do you consider seasonality in the data-filling / LTC process?

n = 25



Figure A-33. Results of the questionnaire – Question 33

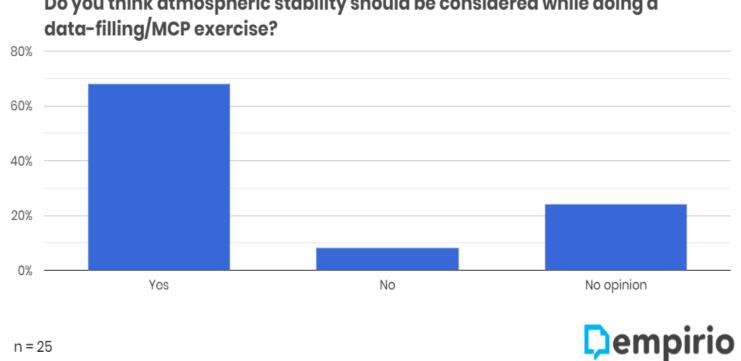


Regarding linear regression based on monthly values, which approach do

n = 25

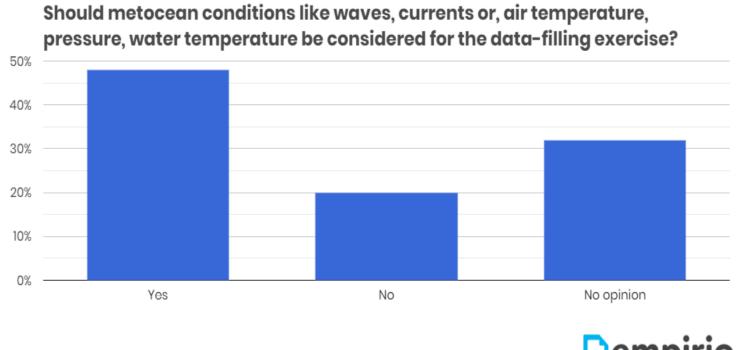


Figure A-34. Results of the questionnaire – Question 34



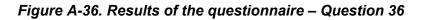
Do you think atmospheric stability should be considered while doing a

Figure A-35. Results of the questionnaire – Question 35

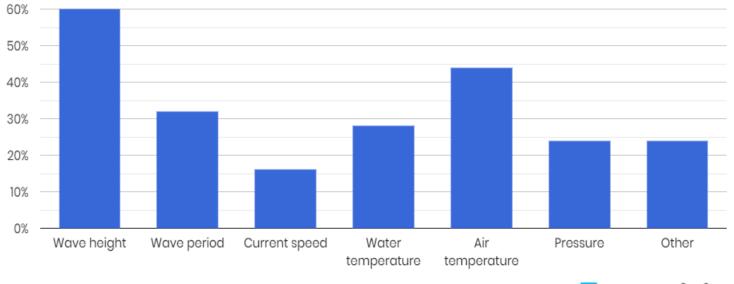


n = 25





Which of the below metocean parameter should be analyzed for the datafilling exercise?



n = 25



Figure A-37. Results of the questionnaire – Question 37

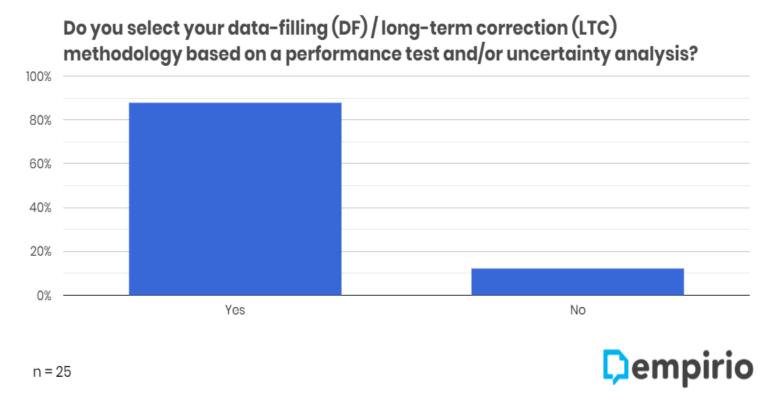


Figure A-38. Results of the questionnaire – Question 38

Can you elaborate on your preferred performance test and/or uncertainty analysis for datafilling/LTC? (optional, skip if N/A)



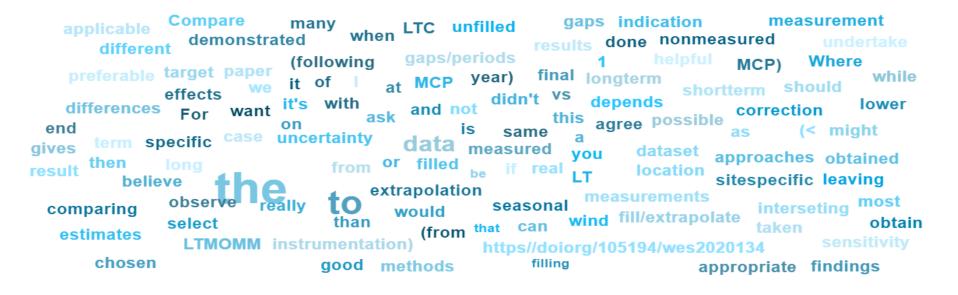
n = 7

Source: Author's own illustration

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Figure A-39. Results of the questionnaire – Question 39

Do you have any other comment, suggestion or recommendation regarding this research topic?



n = 7

Source: Author's own illustration

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