

*** Questionnaire responses to model complexity in geosciences ***

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*** General Introduction ***

This dataset contains:

- the questions and answer options of a questionnaire on model complexity ('Questionnaire.pdf')
- the answers to a questionnaire on the topic of model complexity ('Questionnaire_responses.xls')

This questionnaire was sent out in mid-October 2018 and closed on 12 November 2018.

The objective of the study was to investigate the geoscientific community's views on complexity in models.

No specific grant was used for this research.

The results are published in a special-issue paper in *Catena* on *women in geosciences* as:

Baartman JEM, Melsen LA, Moore D, Van der Ploeg, MJ, 2020. On the complexity of model complexity: viewpoints across the geosciences. *Catena* 186: 104261. <https://doi.org/10.1016/j.catena.2019.104261>

*** Questionnaire structure ***

The questionnaire consisted of 5 background questions and 7 questions on model complexity. Circles indicate only one answer could be chosen from the answer options, squares indicate multiple answer options were possible. All questions include the option 'prefer not to answer' and if relevant 'other (please specify)' which included a text box. Two questions were designed as 5-point Likert scale questions to indicate the degree of (dis)agreement with a series of statements.

At the end, a textbox was added for optional additional comments.

*** Responses to questionnaire ***

The xls file with the responses to the questionnaire contains all complete (n=618) responses to the questionnaire. It is structured as follows:

- the question is given in row 5
- the answer options to the question are given in row 6
- the answers are given in rows 7 – 624.

If one answer option was allowed, the chosen answer is given in the cell.

If multiple answer options were allowed, all possible answer options are given in row 6 and the answers chosen are filled in, the others (not chosen by the respondent) are left blank.

In case of the 5-point Likert scale answer option, each statement is given in row 6 and the answer is given for each statement: strongly disagree, disagree, neutral, agree or strongly agree.