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# CarboCAT

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## Metadata

[Summary](#) [Contact](#) [Technical specs](#) [In/Output](#) [Process](#) [Testing](#) [Other](#) [Component info](#)

### Also known as

### Model type

Single

### Incorporated models or components:

### Spatial dimensions

### Spatial extent

### Model domain

**One-line model description** Carbonate cellular automata cyclicality

### Extended model description

CarboCAT uses a cellular automata to model horizontal and vertical distributions of carbonate lithofacies

### Keywords:

carbonate lithofacy, cellular automata cyclicality,

## Model info

Authors [\[show\]](#)

Source code [\[show\]](#)

QR-code [\[hide\]](#)



[Link to this page](#)

Other models by this author [\[show\]](#)

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## Introduction

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## History

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Development of the model began in 2005 as an Excel Visual Basic programme. Conversion to Matlab started in 2008. Downloadable version here is still a prototype and requires further testing. Development is ongoing, mostly focussed on development of sediment transport algorithms.

## Papers

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Burgess (2012) describes the prototype version of CarboCAT. See <http://www.sciencedirect.com/science/article/pii/S0098300411002949>

## Issues

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## Help

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Contact [p.burgess@rhul.ac.uk](mailto:p.burgess@rhul.ac.uk) (<mailto:p.burgess@rhul.ac.uk>)

## Input Files

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The main input file defines parameter values and filenames of several secondary input files. A parameter file `example.txt` and all the other files indicated in `example.txt` are given with the source code and the GUI is set to load this parameter file as a default setting.

## Output Files

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Category: Carbonate

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