

# KIT Gas flaring emission dataset

## General information

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Dataset name: KIT Gas flaring emission dataset  
Created on: 2017-04-07

### Contact(s)

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Deetz Konrad - KIT - konrad.deetz@kit.edu (Dataset contact)

### Period

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Date begin (yyyy-mm-jj): 2012-03-01  
Date end (yyyy-mm-jj): 2016-08-31

### Project(s)

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DACCIWA > WP3 - Atmospheric Chemistry

## Data description

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### Abstract

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Within this dataset the SWA flaring emissions of CO, CO<sub>2</sub>, NO, NO<sub>2</sub> and SO<sub>2</sub> were estimated, covering the time period March 2012 to August 2016 on a daily basis. The method to derive these emissions is a combination of remote sensing observations and combustion equations, published in Deetz and Vogel (2017). The package contains six inventories (available as ASCII or R binary format), a README and figures illustrating the location of the gas flares and the emission timeseries.

### Observing strategy

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By using this dataset it is possible to consider the gas flaring emissions in chemistry modelling explicitly and with a high spatiotemporal resolution.

### References

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Deetz, K., Vogel, B., 2017: Development of a new gas-flaring emission dataset for southern West Africa, *Geosci. Model Dev.*, 10, 1607-1620

## Geographic information

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### southern West Africa

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Location name:	southern West Africa
Platform type:	Geographic Regions
West bounding coordinate (°):	-10
East bounding coordinate (°):	15
North bounding coordinate (°):	20
South bounding coordinate (°):	-10

## Measured parameter

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### CO, CO2, NO, NO2, SO2

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Parameter name:	CO, CO2, NO, NO2, SO2
Parameter keyword:	Atmosphere > Atmospheric Chemistry > Trace Gases/Trace Species
Unit:	kg h-1

## Data use information

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Use constraints:	Please cite Deetz, K., Vogel, B., 2017: Development of a new gas-flaring emission dataset for southern West Africa, Geosci. Model Dev., 10, 1607-1620 if you use the dataset.
Data policy:	DACCIWA data policy