

SAMOS is a warning system for upconing saltwater. Saltwater can permanently destroy the wells used for freshwater production.

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für Bildung
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The vertical electrode system **SAMOS** was developed to explore and monitor saltwater intrusions in the subsurface. It uses the resistivity method of applied geophysics.

Prototypes of this system were installed in two water catchment areas at the North Sea island Borkum and analyze the interface between the freshwater lens and the saltwater-bearing sediments below since 2009.

With the go-CAM project further systems were installed in 2019 and 2020 close to Jever and on the North Sea island Spiekeroog. The apparent resistivities at depths of up to 50 m are regularly measured once per day.