

# Gautebøye - Processing

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## Introduction

This document describes the simple processing tools as well as some notes for how to use the data with SEISAN or MATLAB.

## 1 Tools

### 1.1 dtttomseed

### 1.2 dattodtt

### 1.3 dttfix

### 1.4 fakedtt

### 1.5 mschangesource

## 2 SEISAN

### 2.1 Configuration

You have to increase the plot resolution of mulplt to something like 40000 horizontal and around 3000

vertical, as well as update the frequency band of the spectral analysis to at least 125 Hz.

### 2.2 Conversion

Use *dtttomseed* to convert to miniSEED, update the source file to change location and station. I have used SHZ as channel code for the hydrophone.

### 2.3 Test

Use the program *fakedtt.py* to create a DTT file with a sine wave and try to convert and plot it to see if everything works.

## 3 MATLAB