# Metadata form for underway measurement systems

Please submit this form to Benjamin Pfeil (benjamin.pfeil@bjerknes.uib.no) or Steven van Heuven (RuG), Mario Hoppema (AWI), Elizabeth Jones (NIOZ) to be filled in by the scientists.

## Investigator
- Name: [Name]
- Organization: [Organization]
- Phone: [Phone]
- Email: [Email]

## Dataset Info
- Submission Date (will be completed by the data management team): [YYMMDD]
- Initial Submission: [YYMMDD]
- Revised Submission: [YYMMDD]

## Cruise Info
- Geographical Region: [Region]
- Easternmost Longitude: [Degrees, Minutes, Seconds: East West]
- Southernmost Latitude: [Degrees, Minutes, Seconds: South North]
- Northernmost Latitude: [Degrees, Minutes, Seconds: North South]
- End Date: [YYMMDD]

## Variables
- **Variable Name**: [Name] (valid)
- **Value**: [Value]
- **Uncertainty**: [Uncertainty]
- **Resolution**: [Resolution]
- **Instrument**: [Instrument]

### Measurement Method
- **Measurement Method**: [Method]
- **Variable Name**: [Name]
- **Temporal Coverage**: [Equalizer Design]
- **Temperature**: [Temp]
- **Vessel Name**: [Vessel]
- **Vessel ID**: [ID]
- **Ports of Call**: [Ports]
- **Uncertainty**: [Uncertainty]

### Emissions from the Cruise Leg
- **CO2 Sensor**: [Sensor]
- **Material**: [Material]
- **Environmental Control**: [Control]

### Equilibrator Design
- **Volume (L)**: [Volume]
- **Flow Rate (L/min)**: [Rate]
- **Flow**: [Flow]
- **Temperature of seawater in equilibrator**: [Temp]
- **Temperature of seawater in equilibrator**: [Temp]
- **Temperature of air in equilibrator**: [Temp]

### Equilibrator Volume
- **Volume (L)**: [Volume]
- **Flow Rate (L/min)**: [Rate]
- **Temperature of seawater in equilibrator**: [Temp]
- **Temperature of air in equilibrator**: [Temp]

### Calibration
- **Calibration**: [Calibration]
- **Calibration**: [Calibration]
- **Calibration**: [Calibration]

### Local Information
- **Vessel Name**: [Vessel]
- **Vessel ID**: [ID]
- **Ports of Call**: [Ports]
- **Uncertainty**: [Uncertainty]

---

Please submit this form to Benjamin Pfeil (benjamin.pfeil@bjerknes.uib.no) or Steven van Heuven (RuG), Mario Hoppema (AWI), Elizabeth Jones (NIOZ) to be filled in by the scientists.
<table>
<thead>
<tr>
<th>Data Set References</th>
<th>Citation</th>
<th>Data Set Link</th>
<th>Link Note: (Optional instructions or remarks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method R</td>
<td></td>
<td></td>
<td>Calibration of measurements performed using 3 standards AND the N2-standard. This deviates from Pierrot 2009, who recommends calibrating against CO2-standards only. However, due to occasional loss (over the 4 years of operation of the instrument) of one of the CO2-standards, the addition of N2 salvages a lot of data. Flagging: 1=good, 4=questionable, 8=bad, 9=missing.</td>
</tr>
</tbody>
</table>