Underway measurements metadata form

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- Dataset Info:
  - Dataset ID:
  - Submission Dates:
    - Initial Submission: 2012/04/13
    - Revised Submission: 2012/05/01

- Cruise Info:
  - Experiment:
    - Experiment Name:
  - Cruise:
    - Cruise ID: GM0606
  - Geographical Coverage:
    - Geographical Region: Northern Gulf of Mexico
    - Westernmost Longitude: -94.5 Degrees, Minutes, Seconds: E
    - Easternmost Longitude: -87 Degrees, Minutes, Seconds: E
    - Northernmost Latitude: 31 Degrees, Minutes, Seconds: N
    - Southernmost Latitude: 28 Degrees, Minutes, Seconds: N
  - Temporal Coverage:
    - Start Date: 2006/06/06
    - End Date: 2006/06/11
  - Ports of Call:
    - Vessel Name: Ocean Survey Vessel, Bold
    - Vessel ID:
    - Country: United States
    - Vessel Owner: U.S. Environmental Protection Agency

- Variables Info:
  - Variable:
    - Variable Name: pCO2, partial pressure of seawater carbon dioxide
    - Description of Variable: uatm
  - Method Description:
    - Equilibrator Design:
      - Equilibrator type: head spray/ laminated
      - Equilibrator volume: 0.55
      - Water_Flow_Rate: 3 to 4
      - Headspace_Gas_Flow_Rate: 0.1
      - Vented: No
    - Measurement Method: Cooling dryer+ dessicant
    - Manufacturer of Calibration Gas: Airgas calibrated with NOAA standard gas
    - CO2 Sensors:
      - Manufacturer: Li-Cor
Model: LI-7000
- Environmental Control:
  None
- Resolution:
- Uncertainty: 1ppm
- Calibration:
  LI-7000 was calibrated every 3 to 12 hours during the cruise with 0, 200, 500, and 1000 ppm CO2 gases.

- Other sensors:
  - Manufacturer:
  - Model:
  - Resolution:
  - Calibration:

- Method References:

- Additional Information:
  There was no temperature and salinity sensor in the CO2 equilibrator for this dataset (GM200606). These two sensors were beside the equilibrator and shared the same water source with the CO2 equilibrator. Therefore, these two sensors were compromised as the temperature and salinity of the equilibrator during the calculation. This problem was solved after we added temperature and salinity sensors in the equilibrator in 2008. This temperature sensor beside the pCO2 equilibrator is averagely 0.426 degree C (standard deviation of 0.40 degree C) higher than in-situ measurements from the CTD of the rosette during the cruise with a maximum of 1.62 degree C and a minimum of -0.16 degree C.

- Data Set References:

- Citation:

- Data Set Link:
  - URL:
  - Label:
  - Link Note: