



.wcm3000

Multi-Element Water Content System, SEA Model WCM-3000

process_raw (Level 1)

Purpose

Extracts the liquid and total water content along with WCM 3000 Probe diagnostic data from the SEA M300 data acquisition system file (*.sea). The process_raw script creates the *.seriald0.wcm.raw and *.seriald1.wcm.raw files.

Subroutines

The process_raw script calls the IDL subroutine process_WM1.pro, which in turn calls the subroutine **wcm3000.pro**, which then calls the **create_wcm3000_headerd0.pro** and **create_wcm3000_headerd1.pro** subroutines.

Required Input Files

*.sea

Output Files

Among many other files, it generates:

- *.seriald0.wcm.raw
- *.seriald1.wcm.raw

Syntax

```
process_raw <-d> <-v> <-vm> input_file
```

Example Syntax

```
process_raw ${CoPAS_DIR}/ADTAE/TestData/FlightData/20220411_152103/PostProcessing/22_04_11_15_21_03.sea
```

wcm2correct.py (Level 3)

Purpose

Calculates the adjusted TWC and LWC (083) for the SEA Water Content Measurement (WCM) probe. Uses the CIP and CDP (PADS/M300) files to determine when in or out of cloud and does a baseline correction when out of cloud for a set duration. Creates a file (*.correct.wcm.raw) with baseline corrected and adjusted water contents.

Required Input Files

*.seriald1.wcm.raw or *.wcm_comb.raw

Optional Input Files

*.CIP_V.conc.1Hz

*.conc.cdp.1Hz

Output Files

*.correct.wcm.raw

Syntax

```
[python3] wcm2correct.py [verbose=0|1] [ci_conc_file] [cdp_conc_file] wcm_file
```

Examples

```
wcm2correct.py verbose=1 22_04_11_15_21_03.wcm_comb.raw
```

```
wcm2correct.py 22_04_11_15_21_03.conc.cdp.1Hz 22_04_11_15_21_03.seriald1.wcm.raw
```

```
wcm2correct.py verbose=1 22_04_11_15_21_03.cip_PADS.raw 22_04_11_15_21_03.seriald1.wcm.raw
```

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