

# Workshop History

## 1. St. Andrews (2017-Aug-07)

The first “Analysis of data from high-resolution animal-borne tags” workshop took place in St. Andrews on 7-9th August 2017. This 3-day course covered all aspects of tag calibration, data validation, data processing & quality checking, visualisation and statistical analysis.

### a. St. Andrews (2017-Aug-07) day one

Heading	Workshop materials	Version	Size (KB)	Changelog
Welcome	<a href="#">Workshop Schedule</a>	2017-08-06	818	
	<a href="#">Map of St. Andrews</a>	2017-08-06	192	
Lectures	<a href="#">Lecture 1 SDR Introduction</a>	2017-08-07	11,366	
	<a href="#">Lecture 2 MJ Sensors</a>	2017-08-07	7,991	
	<a href="#">Lecture 3 TM Tracking</a>	2017-08-07 12:45	1,030	UPDATED!
Practicals	<a href="#">Practical 1 Part 1 for Matlab &amp; Octave users</a>	2017-08-07 17:29	66	UDPATED! With typos, bug fixes and additional information included
	<a href="#">Practical 1 Part 1 for R users</a>	2017-08-08 11:15	250	
	<a href="#">Practical 1 Part 2</a>	2017-08-07 20:30	604	UPDATED! Bugs & typos in codes snippets have been removed.
Tag Tools	<a href="#">Tag Tools for Matlab &amp; Octave</a>	2017-08-07	316	
	<a href="#">Tag Tools for R</a>	2017-08-08 14:30	739	UPDATED (Wednesday lunchtime)! With bug fixes for spherical_cal
Updated tools	<a href="#">msa</a>	2017-08-07 14:18	1KB	UPDATED! Matlab & Octave function MSA download and copy over the existing MSA function in the <b>~/processing/</b> directory. Updated to use function sens2var.
	<a href="#">find_dives</a>	2017-08-07 15:22	1KB	UPDATED! Matlab & Octave function find_dives download and copy over the existing find_dives function in the <b>~/processing/</b> directory.
	<a href="#">m2h</a>	2017-08-07 15:22	1KB	UPDATED! Matlab & Octave function m2h download and copy over the existing m2h function in the <b>~/processing/</b> directory.
Example datasets	<a href="#">Test Datasets</a>	2017-08-07	87,316	

Heading	Workshop materials	Version	Size (KB)	Changelog
Updated datasets	<a href="#">mn12_186a_raw</a>	2017-08-07 16:51	3,324	UPDATED! All Sensor channels now included. Corrupted file replaced. Un-zip the data and write over the existing data.
	<a href="#">testset3</a>	2017-08-07 16:15	18,432	UPDATED! Un-zip and Overwrite the existing data.

**b. St. Andrews (2017-Aug-08) day two**

Heading	Workshop materials	Version	Size (KB)	Changelog
Lectures	<a href="#">001 Signal Processing (Mark Johnson)</a>	2017-08-08 08:50	8,872	NEW!
	<a href="#">002a Change Points (Stacy De Ruyter)</a>	2017-08-08 10:45	1,636	NEW!
	<a href="#">002b Event detection (David Sweeney)</a>	2017-08-08 10:45	1,212	NEW!
	<a href="#">003 Measuring movement (Mark Johnson)</a>	2017-08-08 12:30	8,634	NEW!
Practicals	<a href="#">002 Practical 2 for Matlab &amp; Octave (Mark Johnson)</a>	2017-08-08 11:00	53	NEW!
	<a href="#">002 Practical 2 R version (Mark Johnson translated by Stacy)</a>	2017-08-08 14:20	53	NEW!
Tag Tools				
Updated tools	<a href="#">dsf</a>	2017-08-08 16:41	1KB	UPDATED! Matlab & Octave only! Old tool was calling speclev and not spectrum_level. DTag users with DTAG-2 tools already installed would not have noticed an error. Please download the updated file and overwrite the existing dsf.m file in your *~/processing/* path.
Example datasets				
Updated datasets				

**c. St. Andrews (2017-Aug-09) day three**

Heading	Workshop materials	Version	Size (KB)	Changelog
Lectures	<a href="#">001 Statistical analysis (Tiago Marques, Stacy De Ruyter)</a>	2017-08-09 09:10	7,726	NEW!
	<a href="#">002 Inferring behaviour (Saana Isojunno)</a>	2017-08-09 09:30	4,390	NEW!
Practicals	<a href="#">003 Events, states &amp; statistics</a>	2017-08-09 09:00	52	NEW!

Heading	Workshop materials	Version	Size (KB)	Changelog
Updated tools	<a href="#">Matlab &amp; Octave Stats tools</a>	2017-08-09 10:30	122	UPDATED! MATLAB & OCTAVE only. Updated to include <b>ALL</b> current statistics tools. Download the stats.zip and extract the files into your folder <code>~/tagtools/stats/</code> and overwrite the existing stats tools.
	<a href="#">dive_stats</a>	2017-08-09	1KB	UPDATED! Matlab & Octave function <code>dive_stats</code> download and copy over the existing function in the <code>~/processing/</code> directory.
	<a href="#">rotation_test</a>	2017-08-09	1KB	UPDATED! Matlab & Octave function <code>rotation_test</code> download and copy over the existing function in the <code>~/stats/</code> directory.
	<a href="#">acf</a>	2017-08-09	1KB	UPDATED! Matlab & Octave function <code>acf</code> download and copy over the existing function in the <code>~/stats/</code> directory.
Example datasets	<a href="#">Data for Practical 3</a>	2017-08-09		NEW!
Updated datasets				

## 2. Halifax (2017-Oct-28)

"Tag data processing and visulisation", World Marine Mammal Conference, Halifax (2017-Oct-28).

## 3. Barcelona (2019-Dec-08)

"Analysis of data from high-resolution biologging tags", World Marine Mammal Conference, Barcelona (2019-Dec-28).

### a. Barcelona (2019-Dec-08)

#### "Analysis of data from high-resolution biologging tags"

**Location:** World Marine Mammal Conference, Barcelona

**Venue:** Room 129 (P1 level), Centre Convencions Internacional Barcelona (CCIB)

#### Materials for Workshop Participants

##### Software

Participants should have their own machine with either **R**, **Matlab**, or **Octave** installed. We assume a basic familiarity with at least one of the three platforms. R users may also want to install RStudio as an interface to R.

- [R](#) and [RStudio](#) are both free to download.

**Date: Sunday 8 December 2019**

**Status: Full**

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**Workshop Agenda:**

- 08:30-09:00: Brief introduction of the presenters and of the participants.
- 9:00-10:00: Topic 1: Organizing tag data and metadata in archive-ready format.
- 10:00-10:30 Coffee break.
- 10.30-11.00 Topic 1 continuation.
- 11:00-12:30 Topic 2: Sensors, calibration and orientation (tag frame to animal frame).
- 12.30-14:00 Lunch break
- 14:00-15:00 Topic 3: Measuring movement: an introduction to the different products of acceleration, low, medium and high frequency accelerations.
- 15:00-15:30 Coffee break
- 15:30-16:30 Topic 3 continuation.
- 16:30-17:30 Topic 4. Dead-reckoning and analytical methods.
- Wrap up and beer-discussion outside the venue, location TBD.

- **Matlab** is paid software that requires a license.
- **Octave**, which works very similarly to Matlab, is also free to download.

**Workshop Bundle**

All materials for the WMMC workshop (tools, lecture slides, practicals, and example datasets) are bundled together as a zip archive.

- Current development versions of tools are also available in our [TagTools github repo](#)
- Matlab users should add the file `nearest.m` to their matlab tool folder!

**Post-Workshop Survey**

At the close of the workshop, a [satisfaction survey](#) for participants will be linked here.

From: <https://www.animaltags.org/> - **Animal Tag Tools Wiki**

Permanent link: <https://www.animaltags.org/doku.php?id=tagwiki:workshop:past>

Last update: **2020/01/14 16:04**

