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**Intercalibration of Hydroacoustic Method
for WFD Fish Monitoring**

HYDROFISH

**An international workshop dedicated to intercalibration of
hydroacoustic methods**

UMR CARTEL - Thonon-les-Bains, 4 – 5 June 2014

Dr V. Draščík - Dr M. Godlewska - Dr J. Guillard

Steering Committee:

Dr Vladislav Draščík (Biology Centre of ASČR Institute of Hydrobiology - Czech Republic).

Dr Jean Guillard (UMR CARTEL -France) (jean.guillard@thonon.inra.fr)

Dr Małgorzata Godlewska (Inland Fisheries Institute – Poland).

And the Participants of the inter-calibration: P. Clabburn, J. Hateley, J. Kubecka, E. Morrissey E., I.J. Winfield

External Expert: Dr. Helge Balk (University of Oslo, Dept. of Physics- Norway)

List of participants:

T. Axenrot
H. Balk
M. Colon
P. Clayburn
A. Daroux
V. Drastik
J. Hateley
F. Martignac
E. Morrissey
M. Godlewska
J. Guillard
F. Knudsen
J. Kubecka
V. Samedy
C. Vergés
J. Wanzenböck
I. Winfield

Intercalibration of Hydro-acoustic Method for WFD Fish Monitoring

Tuesday 03 June 2014

Arriving

Dinner at restaurant : 20 h

Wednesday 04 June 2014

09h00:

Coffee

09h30

Opening of the meeting

09h40:

J. Hateley:

The CEN Standard: vote and application - Where we are and what is the future (possible amendments)? (10')

10h00:

H. Balk:

Frequency responses of fish : an overview of the theory (15')

10h30:

Coffee Break

11h00:

M. Godlewska and J. Guillard:

Examples of in situ frequency comparisons: 70-120-200 kHz (15')

11h 30:

J. Kubecka and V. Drastik:

Acoustic surveying in shallow layers: will we be able to standardize? (15')

12 h:

J. Wanzenböck:

Results of a net-cage experiment focusing on TS measurements on different fish size groups: how to improve fish measurements for the WFD'

12 h30:

Lunch

14h00:

I. Winfield:

First report and first conclusions from the inter-calibration exercise (I. Winfield) (15')

14h30:

V. Drastik

Operator effect: based on data revisited by V. Drastik (and 3 different operators) (15')

15h00:

Description of the inter-calibration data set and analysis procedures (V. Drastik)

The presentation will be organized by topic and after each topic a room of discussion will be open.

List of the parameters:

- *Frequency;*
- *Methods:*
 - *trace counting,*
 - *sv/ts approach,*

- *SED or tracks;*
- *Beam angle effect (70 kHz);*
- *SED criteria;*
- *TS analysis;*
- *Day – Night;*
- *Basins;*
- *Weather;*
- *Repeated surveys.*

All the analysis done will be shown

16h30:

Coffee Break

17h00:

Continue: Description of the inter-calibration data set and analysis procedures (V. Drastik)

17h30:

B. Montuelle:

Introduction of UMR CARTELM (15').

17h45:

E. Lasne:

Experimental fish farm

18h15:

Welcome reception

20h00:

Dinner at restaurant

Thursday 05 June 2014

09h:

V. Drastik:

Main results of the data analysis : what we have learned from this data set and what we want to show. Brainstorming about the publication

The discussion will be open to the all the participants. The goal is to select the main results and to build the framework of a paper on the intercalibration survey.

10h30:

Coffee break

11h:

Continue- > Main results of the data analysis : what we have learned from this data set and what we want to show. Brainstorming about the publication

12h30:

Lunch

14h:

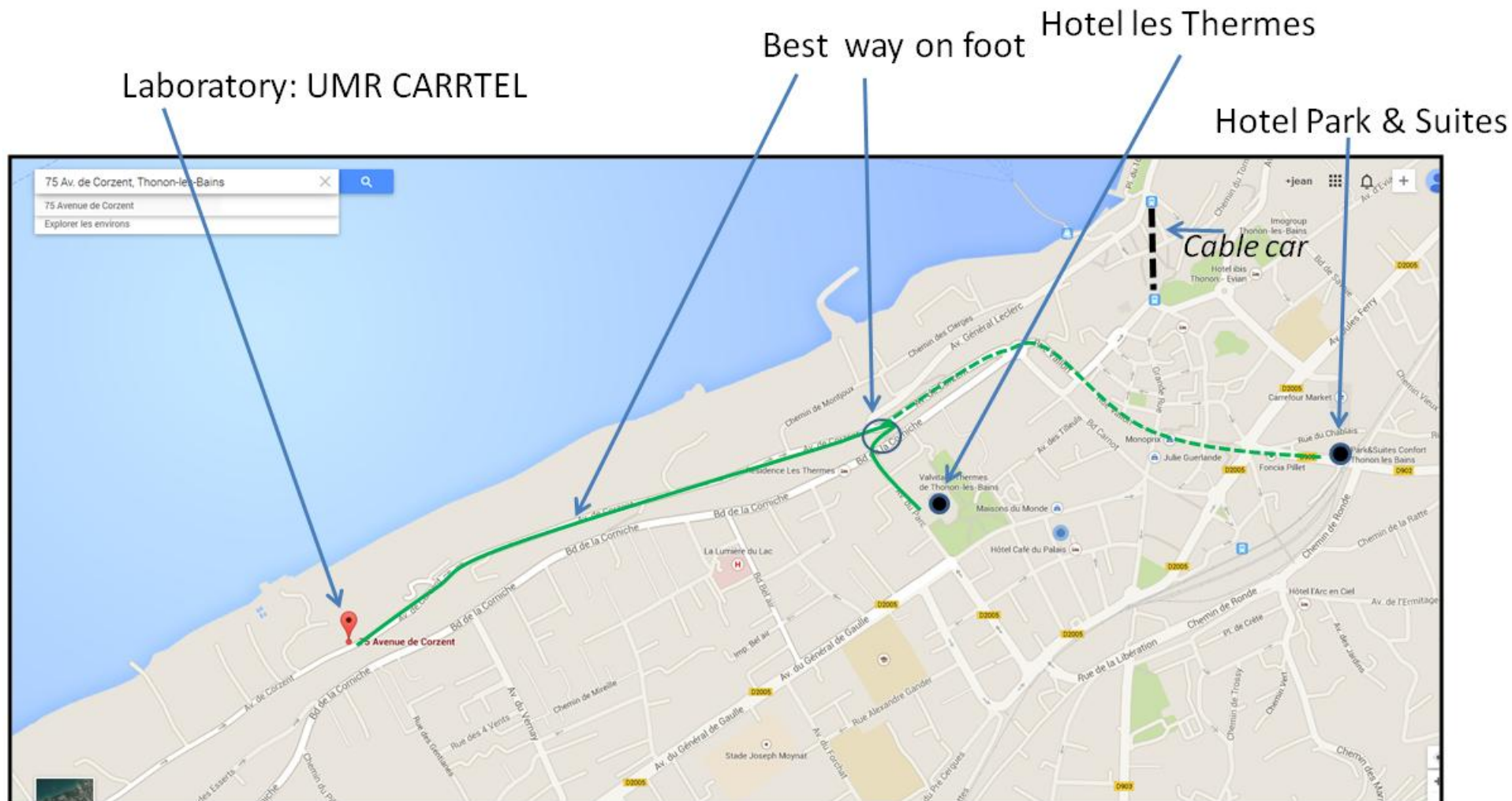
Future inter-calibrations – cooperation

Conclusion of the meeting

17h:

Closing of the meeting





Distances :

Hotel les Thermes - laboratory: 1.4 km, 20 minutes (distance estimation by google)

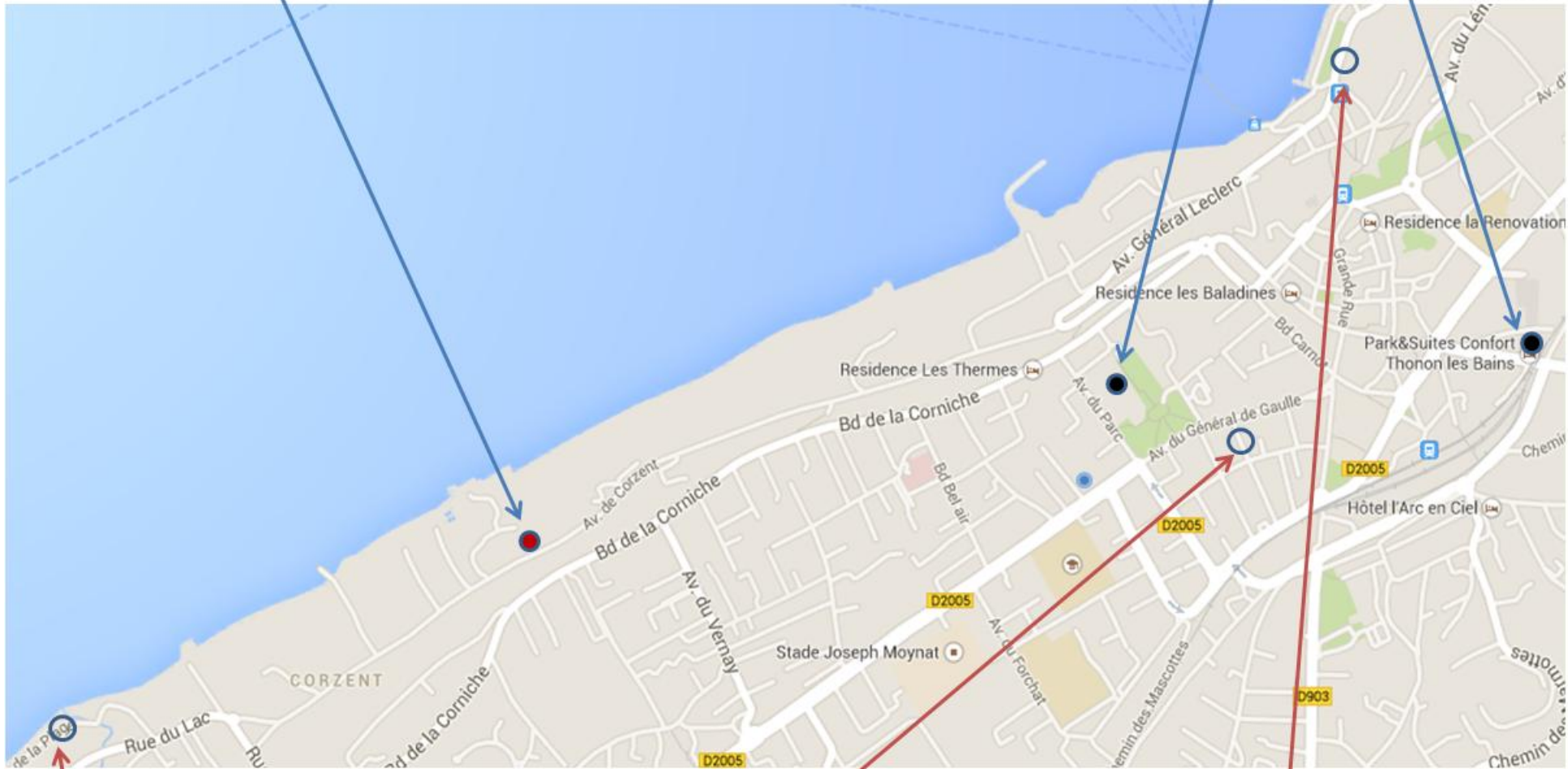
Hotel Park & Suites - laboratory: 2.4 km, 32 minutes

Adress: 75 av. de Corzent, 74203, Thonon-les-bains - 46.367340, 6.456488

Laboratory: UMR CARTELE

Hotel les Thermes

Hotel Park & Suites



Dinners (20:00)

- Wednesday
Les pieds dans l'eau
Plage de Corzent

- Tuesday
Restaurant Betendy
Rue des Italiens

- Thursday
Restaurant La Commanderie
Le port