

Brief Minutes Teleconference WiSP JIP on Definition of tasks T1.1, T1.2 and T3.1

Tuesday 23 July 2019

Attendees

The following people attended, as far as identified in Blue Jeans:

Person(s)	Organisation
Qing Yu and Zeliang Xu	ABS
Rogier Eggers	MARIN
Chen Jiun	CSSRC
Rafael Fisher and Paula Ricardo Costa?	Vale
Arthur Vrijdag	DUT
Ville Paakkari	NP
Julien Ducarne	CWS
Joe Baker and Nick Contopoulos	AM
Konstantinos Fakiolas	FO
Dalian Shipbuilding Industries Corp	DSIC

Opening

Rogier Eggers opened the meeting as stand in chairman (due to absence of Patrick Hooijmans).

Current list of participants

The table below shows the list of participants to date. New on the list is DSIC. No objections were received for their entry in the project. Thus, they are now a participant. DSIC have mentioned that they would like to cover their "New Vitality" in the project (how to organize that is to be arranged). There are further enquiries for participation. It is expected that the list will grow further.

No.	Name	Abbreviation
1	American Bureau of Shipping	ABS
2	Maritime Research Institute of the Netherlands	MARIN
3	China Ship Scientific Research Center	CSSRC
4	Vale S.A.	Vale
5	Delft University of Technology	DUT
6	Dykstra Naval Architects	DNA
7	Eco Flettner	EF
8	Norsepower	NP
9	Berge Bulk	BB
10	Computed Wing Sail	CWS
11	Anemoi	AM
12	FinOcean Ltd.	FO
13	Dalian Shipbuilding Industries Corp	DSIC

Current list datasets reference vessels

The following list shows the data sets that are considered in the project. The Wasp/Ecoliner data is used to start tasks 1.1 and 1.2. The dataset around the Wind Hybrid Coaster/EcoFlettner/Fehn Pollux is selected for task 1.3, but starting of work with it requires some discussions regarding the dataset to be settled. These two datasets have in common that they are mostly available at MARIN already, and they contain base data specifically for WASP to start sensitivity studies. The other data sets may be considered for later in the project, e.g. WP2.

Code	Vessel	Remarks
E	Wasp/Ecoliner (DNA)	Concept for WASP vessel with Dynarigs (confirmed)
W/E/F	Wind Hybrid Coaster/EcoFlettner/Fehn Pollux (EcoFlettner & Fehn?)	Concept and final real install of Flettner rotor on Coaster(s) (to be finalised)
AK	Anemoi Kansarmax (Anemoi & Ship owner?)	Sailing bulker ready for Flettner rotors (offered)
NV	New Vitality (DSIC & Ship owner?)	Sailing 308k DWT tanker already equipped with wing sails (offered)

Presentation of work T1.1 (TUD)

Arthur Vrijdag presented the planned work on modelling of power generation and propulsion. This task feeds in to tasks T1.2 and T1.3. One is referred to the slides for details. A particular comments was whether other configurations than diesel direct are planned to be analyzed. The answer is that this is certainly the intention. However, base line performance will be first determined for a base line with diesel direct. The possibility of running alternatives also depends on availability of budget.

Presentation of work T1.2 (MARIN)

Rogier Eggert presented the planned work on performance modelling. One is referred to the slides for details. It takes the sub model generated by T1.1 as input. A large variety of sensitivity studies are planned. Care must be taken that the cross-relations between particular variations do not become excessive. It was asked whether the existing dataset (for Wasp/Ecoliner) is rich enough to allow sensitivity studies. Rogier commented that this is judged to be the case. E.g. there are multiple sets of data both for aero and hydrodynamics. Additionally, for variations that are not directly available as background information, perturbations can be used in the existing input, to see how they propagate to the end result.

Presentation of work T3.1 (ABS)

Qing Yu presented the work to build an inventory of existing class and statutory regulations having an influence on WASP. A preliminary listing of topics was shared (see attached slides/document). Qing highlighted that there is now a parallel internal project at ABS to develop dedicated classification requirements for vessels equipped with WASP. There is certain synergy with that work and WiSP participants will be asked for input. However, the deliverables from the internal and WiSP projects will be separate. ABS will also reach out to other class societies and WASP developers to include their experience and present rules in the inventory.

Any Other Business

Tasks 1.1, 1.2 and 3.1 are now free to start. Any further comments or questions can be send either to the entire group or directly to the partners conducting the work.

A new meeting will be scheduled in the fall. First results should then be available.

Closure

Rogier Eggers closed the meeting.

