Australia TUFLOW 2017
Extra Training Sessions

The 2017 version of TUFLOW has some of the most exciting new computational features for several years. Following the sell-out of our mid-year training and workshop days we will be re-visiting Brisbane, Sydney and Melbourne showcasing the new features of TUFLOW and offering 'hands on' introductory and advanced training sessions.

TUFLOW is a world-leading, powerful 1D and 2D computational engine for simulating floods, tides and pipe network hydraulics. It has been successfully applied world-wide to a diverse range of applications, from coastal storm tide inundation to broad scale whole of catchment flooding and fine-scale urban flooding with complex pipe networks.

The additional training days in November and December, 2017 are focused on our grid based modelling platform, which includes the TUFLOW "Classic" and heavily parallelised (GPU enabled) solvers.

Facilitated by the developers of TUFLOW, the training will provide you with direct access to specialist advice on model setup, review and the latest tips and tricks. We look forward to seeing you there and if you have any questions, please don't hesitate to get in contact @ training@tuflow.com.

Trainers and Presenters

The sessions will be conducted by three of Australia's leading hydraulic modelling experts: Bill Syme, Mitchell Smith and Phillip Ryan. Collectively the trio have over 50 years TUFLOW modelling experience!

Bill Syme
Software Manager and TUFLOW Author

Mitchell Smith
TUFLOW Training and Support Lead

Phillip Ryan
TUFLOW Development Lead

Introductory TUFLOW Training

This computer based training is aimed at new TUFLOW modellers. The course includes TUFLOW theory, followed by practical model creation and review of results.

Advanced TUFLOW Training

This computer based training is aimed at existing TUFLOW modellers. The course familiarises TUFLOW users with new features and efficient modelling practices in detail.

Preparation

Introductory Training Day: All required training material, including laptops will be provided.

Advanced Training Day: All required training material, including laptops will be provided. Optionally, you can bring a laptop if you've pre-installed and licensed software on your machine (GIS, Text Editor, Excel etc.). Dongles are not required.

Dates and Locations

Location	Beginner Training	Advanced Training
Brisbane	22nd November	23rd November
Sydney	~~29th November~~ FULL	30th November
Melbourne	~~6th December~~ FULL	7th December

Costs

Costs for each training day are outlined below.

Introductory or Advanced TUFLOW Training	$880/person (inc. GST)

Phillip Ryan – TUFLOW Development Lead facilitating an Advanced Training Day.

Registration and Payment

Please complete and send this section to BMT WBM with your payment option. Scan and e-mail to training@tuflow.com, or post (Attn: TUFLOW Training) to:

BMT WBM Pty Ltd
Level 8, 200 Creek Street
Brisbane, Queensland, 4000 Australia
ABN 54 010 830 421
Tel: + 61 7 3831 6744 (Amy Smith can help with enquires)

Title .... First Name .... Surname ....

Organization……………………………………………………………………………...

Address ……………………………………………………………………………………

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Postcode……………. Telephone……………………………………………………..

Email………………………………………………………………………………………

Indicate which location (please tick)

☐ Perth   ☐ Brisbane   ☐ Sydney   ☐ Melbourne

Indicate which session (please tick)

☐ Introductory TUFLOW Training ($880)

☐ Advanced TUFLOW Training ($880)

Payment Amount: …..................

Payment method: ☐ Cheque (please attach)   ☐ Mastercard

☐ Purchase Order (please attach)   ☐ Visa

Credit Card No: ....

Expiry Date (MM/YY): .... / ....

Name on Card: ....

Signature: ....

Introductory TUFLOW Training

8:45

TUFLOW Introduction
- Technical overview of TUFLOW.
- Presentation of the interactions between TUFLOW, GIS, 3rd Party providers and text control files.

9:45

2D Model Theory
- Template files.
- Model geometry.
- Boundaries.
- Running TUFLOW simulations.

10:15
Tea break

10:45

2D Model Development
- How to create and run 2D only floodplain model.
- Review results.

12:30
Lunch (provided).

13:15

Model Performance
- Model check files.
- Model health / performance.

13:45

2D Topography Modification
- How to use break lines.
- How to modify topography using cut/fill regions.
- Using model check files.

14:30

Embedding 1D structures
- 1D/2D linking mechanisms.
- How to embed 1D structures in a 2D model.
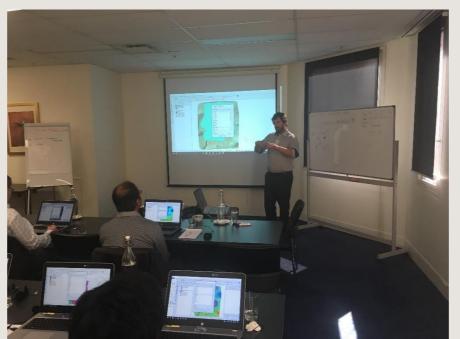- How to review structure performance.

15:30
Afternoon tea and networking.

16:00 – 17:00
- Embedding 1D structures (continued).
- Q&A session.

Bill Syme – Founder of TUFLOW at an 'Inside the Black Box' training session.

Mitchell Smith – Training and Support Lead running through the Introductory Training day.

Advanced TUFLOW Training

8:45

TUFLOW Introduction, Theory and Applied Hydraulics
- Technical overview – Inside the Black Box of the two solvers!
- Lecture – New techniques for urban flood modelling.

Handy new TUFLOW features
- Speeding up model initialisation – Full model binary and XF outputs.
- New output formats and python visualisation tools.
- Monte Carlo simulation management and result processing.

10:30
Morning Tea and Networking.

10:45

Hands on - TUFLOW HPC (Heavily Parallelised Compute) CPU & GPU Solver
- In-depth overview of the new GPU enabled solver.
- Using 1st order and new 2nd order solutions.
- Detailed discussion on comparisons to TUFLOW Classic.
- Solver selection, implication for runtimes, hardware usage, running on multi-threaded CPUs.

12:15
Lunch (provided)

13:15

Hands on – Australian Rainfall and Runoff
- Automation and setup of AR&R ensembles through AR&R data hub.
- Batch file tips and tricks for large event sets.
- Post processing tools for ensemble datasets.
- AR&R blockage .

Tuflow on the Cloud
- Recent advancements in TUFLOW Cloud computing.
- Migrating production modelling to the cloud.
- TUFLOW cloud offering.

15:30
Afternoon tea and networking.

16:00 – 17:00
- Training day recap.
- Q&A session.