

Measuring of Currents

App SailTokyo-Currents

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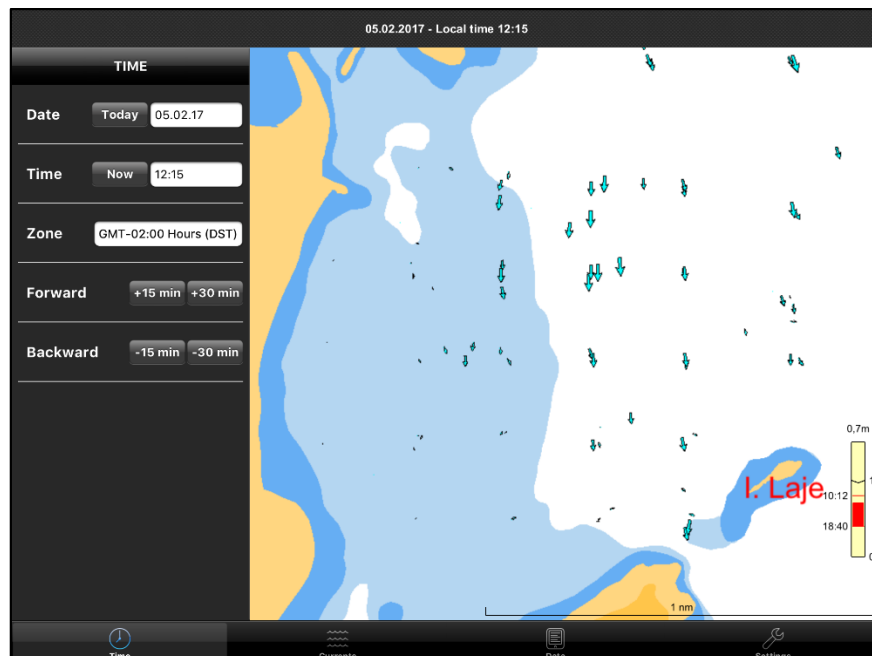
1 Introduction

The IOS app (iPhone and iPad) **SailTokyo-Currents** is part of the cloud based team solution **SailTokyo**. Without availability of the core solution **SailTokyo** the app runs with limited functionality.

Main features of **SailTokyo-Currents** are:

- Measurement of currents by manually input of speed and angle
- GPS based measurement of currents using 2 points method
- GPS based measurements as series of 4
- Positioning of measurement by GPS
- Time of measurement by mobile
- Magnetic deviation
- Currents direction “from/to”
- Display of currents fields on various maps
- Tidal data of maps
- Course areas
- Data storage on mobile
- Data filter for display of data selection

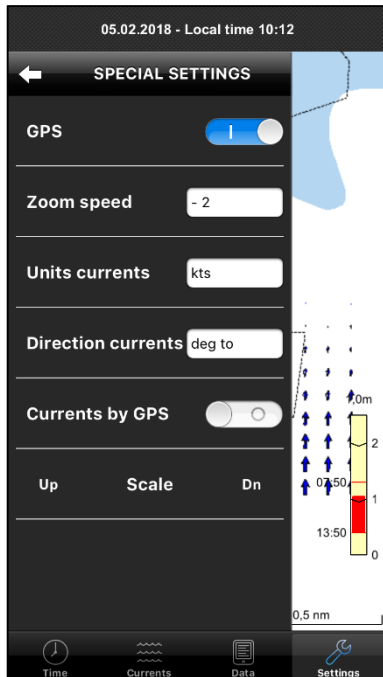
SailTokyo-Currents is a ready to use simple and efficient app. The image below shows an example of currents measured in Rio:



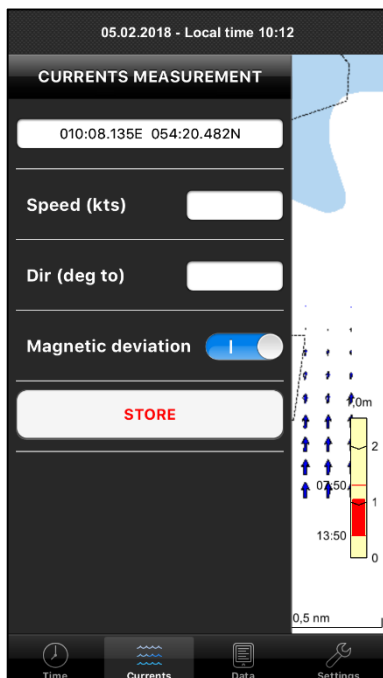
If **SailTokyo-Currents** is connected via cloud to **SailTokyo** further options are:

- Currents fields simulation
- Sharing of data with all team cloud members
- Individual maps (Open waters)

2 Measuring of currents manually

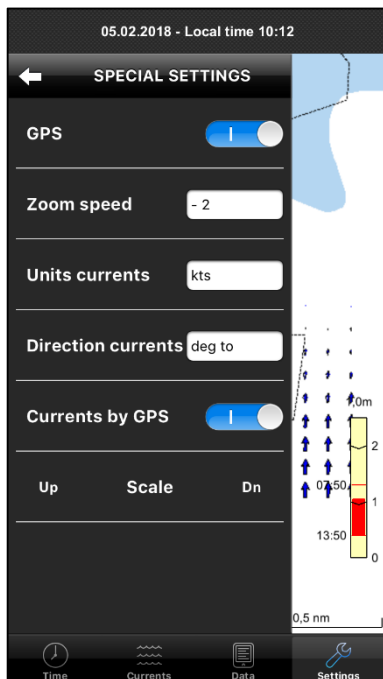


- Click Settings - > Settings.
- Switch on **GPS** (Default=on).
- Switch off Current by GPS.
- Set unit of currents and floating direction.

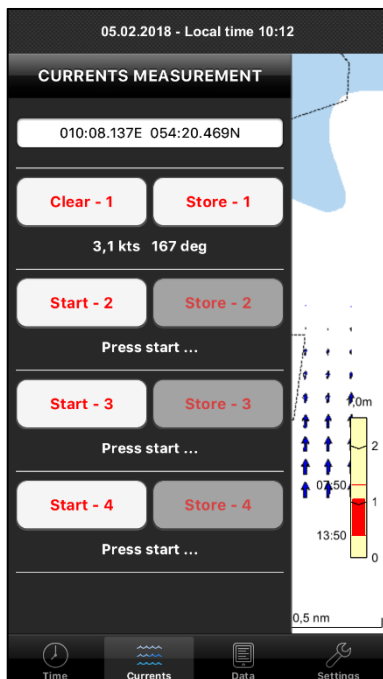


- Click onto option **Currents** in the lower options bar. The form CURRENTS MEASUREMENTS slides out left. For sliding back just click again option Currents or use gesture.
- Enter speed. Note that no separator is required. Input of 05 will be transformed to 0,5 kts and 15 to 1,5 kts.
- Enter angle of measurement.
- Press button **Store** and currents vector will be displayed on the map.
- If vector is not visible check data filter and map.
- Max. currents speed must be below 5 kts.
- If direction is based on compass angle switch on magnetic deviation.

3 Measuring of currents by GPS

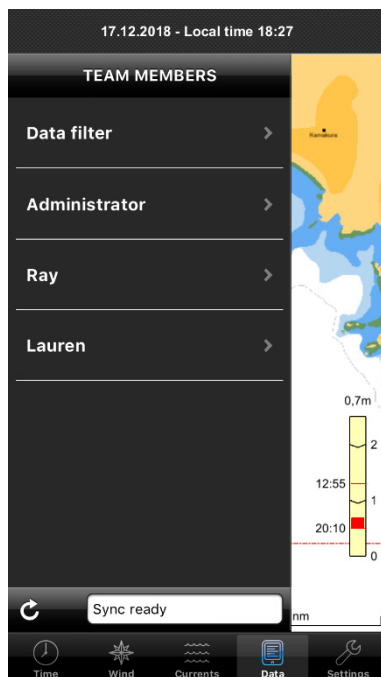


- Click Settings - > Settings.
- Switch on **GPS**.
- Switch on Currents by GPS.

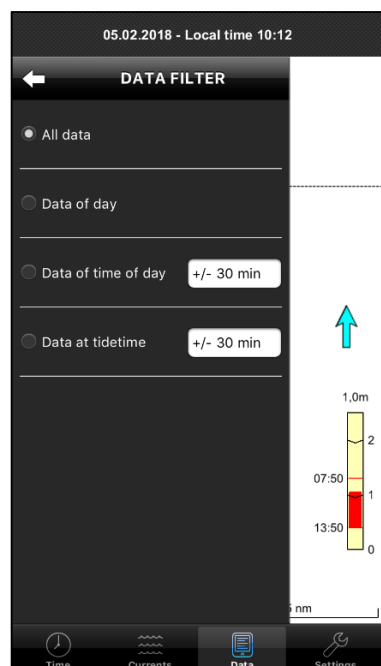


- Note that up to 4 measurements are provided simultaneously.
- Put a floating marker for currents measurement into the water.
- Press **START**.
- Follow marker.
- After app. 30m of drifting go to floating marker and press **STOP**.
- Press button **STORE** and currents vector will be displayed on the map.
- If vector is not visible check data filter and map.
- Currents speed is limited to 5 kts.

4 Data Filter

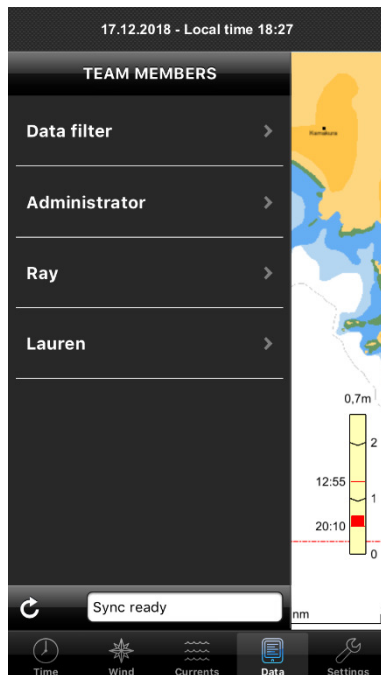


- Click onto option **Data** in the lower options bar. The form TEAM MEMBERS slides out left and displays **Data filter** option and the list of **team members**.
- Press **Data filter** for opening filter form.

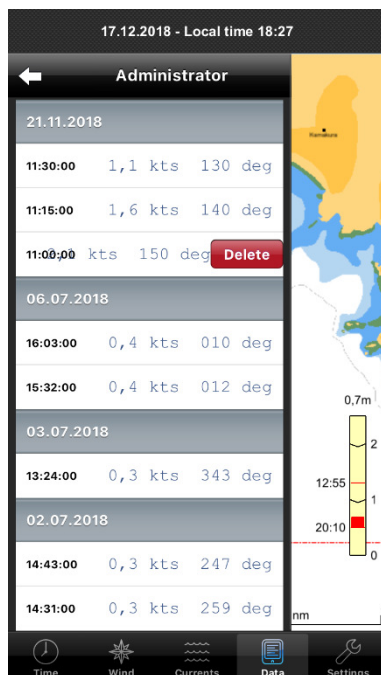


- **Data of day** filters all data of selected day (See option **Time**).
- **Data of time of day** filters all data of selected day around a specific time (See option **Time**).
- **Data at tide time** filters all data around the time distance to highwater of selected time (See option **Time**). This filter generates simple current maps of a tide time.

5 Data of team members

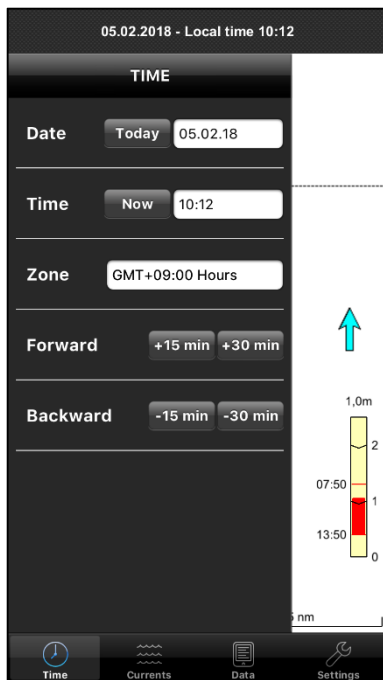


- See team members Administrator, Ray and Lauren in list.
- Press sync button (Bottom line) to send and receive team data.
- Slide to each team member to list measured data.



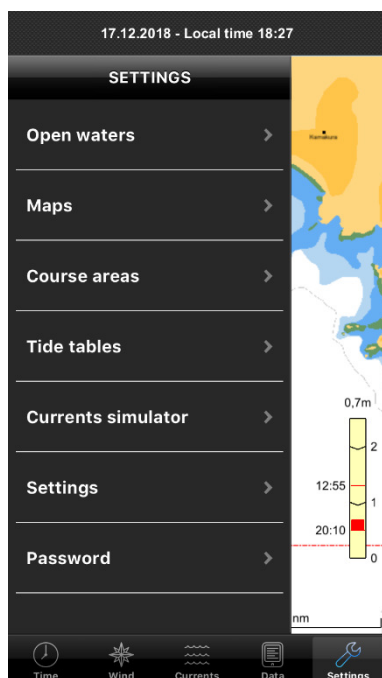
- Data of a single team member.
- Data may be deleted by wiping delete button and press. button.
- Data from other team members will be deleted on mobile only.
- Data measured on mobile will be deleted on other team mobiles or desktop after sync.

6 Setting day and time

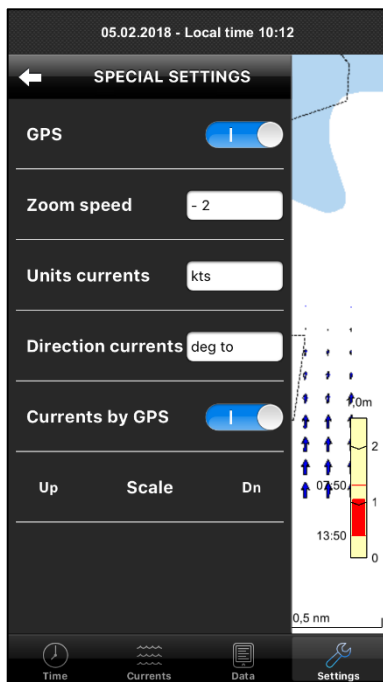


- **Date** and **Time** settings determine the currents and tidal situation (See **Filter**) on the map.
- Buttons **Forward** and **Backward** allow time accorded navigation through measurements (See **Filter**) on the map.
- During measuring process time will be set back to realtime.

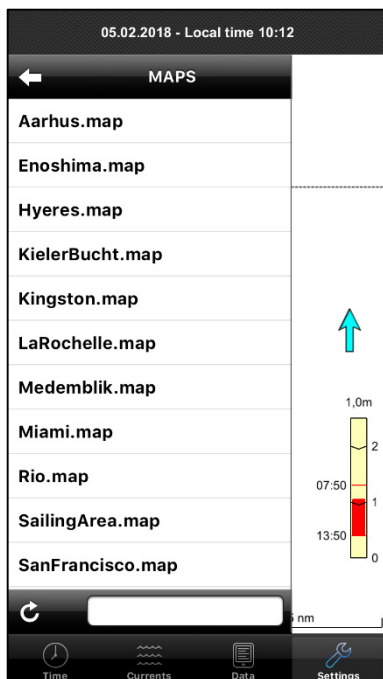
7 Settings



- **Open waters** loads individual sea map areas defined in main team software **SailTokyo**.
- **Maps** displays and loads available maps.
- **Course areas** may be loaded from team cloud.
- **Tide tables** displays available tidal data required for filtering data according time to tide.
- **Currents simulator** opens settings for interpolation of currents fields. (Available for **SailTokyo** team members only)
- **Settings** covers specific app settings (See below).
- **Password** connects to the main team solution **SailTokyo**.

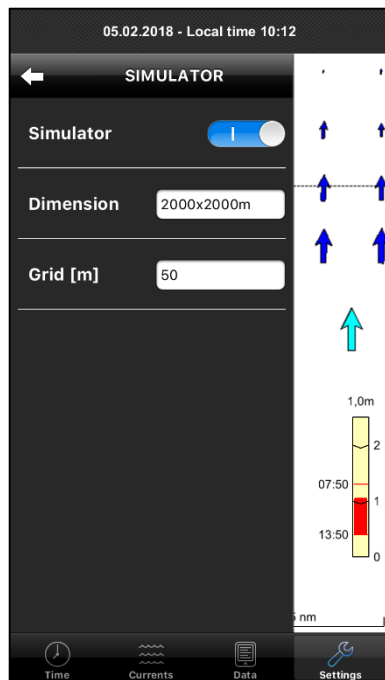


- Switch on/off GPS. GPS is required for current measurement.
- Adjust zoom speed for map gestures on your mobile.
- Select unit of measurements.
- Select direction of measured current (floating “to” or “from”).
- Switch between manually measuring method and GPS based measurements.
- Use buttons **Up** and **Dn** to scale current vectors on map.

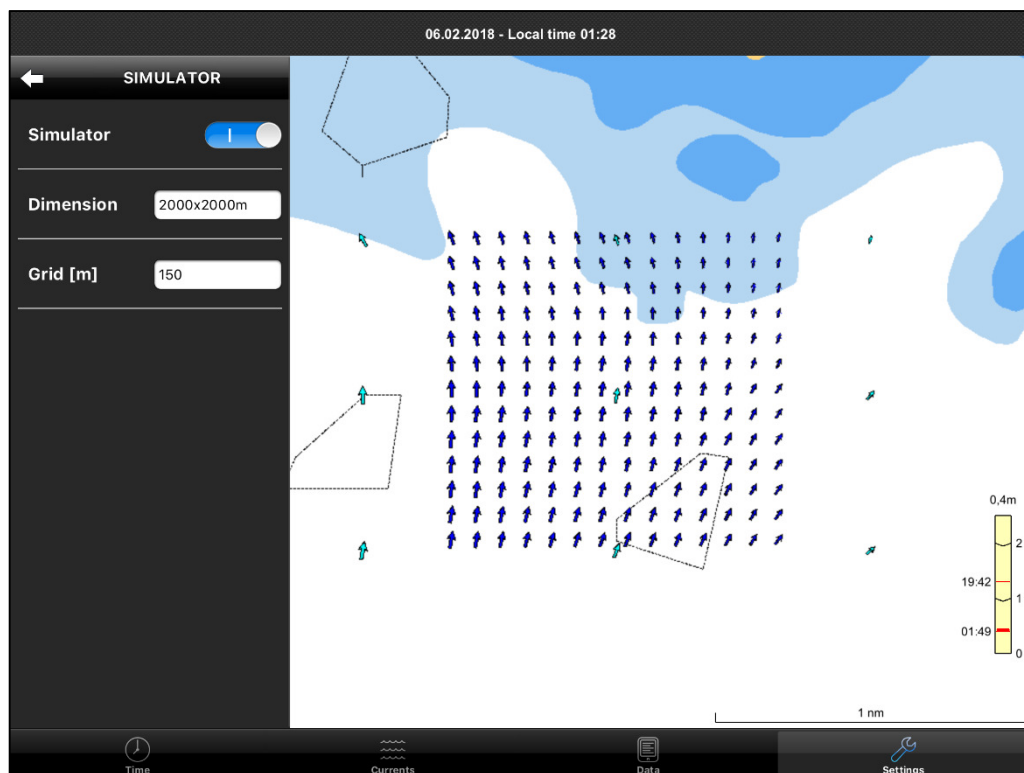


- Exemplarily this form lists cloud data loaded by the app.
- Every form listing cloud data enables synchronization with cloud pressing the **circled arrow button** left below list.

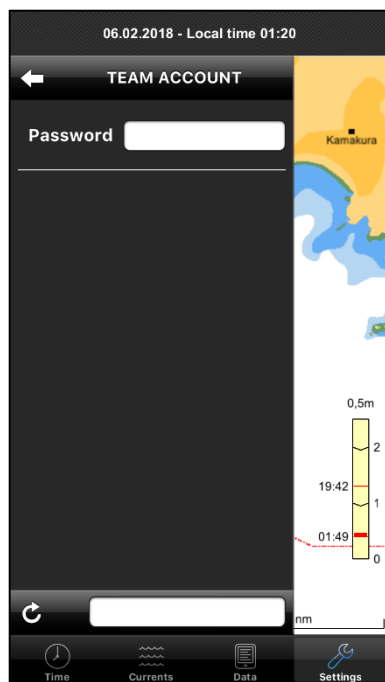
8 Currents simulator



- Interpolation of currents fields according to settings of data filter.
- Switch on/off Simulator.
- Choose dimension of interpolation area. Center of area will be center of currents measurements.
- Setup grid size for display currents field on map.



9 Team Cloud Account



- Ask your *SailTokyo* team solution administrator for your **team password** and enter key.
- Pressing **circled arrow button** bottom left to connect to the team cloud data storage.
- Now your app is able to synchronize measured data and open waters.
- If accounting fails check internet connection!