

Sailaway API

To gain access to the Sailaway API, you need to apply for a key. This key belongs to you personally, so please don't share it with others, but let them apply for their own key instead.

All API's return their data in JSON format.

Don't call these API's every few seconds, because they increase the load on the Sailaway servers and have an impact on game performance. Use a minimum interval of 10 minutes instead. If data is needed frequently, you should cache the results on your own server.

Retrieve weather conditions

<https://backend.sailaway.world/cgi-bin/sailaway/getenvironment.pl>

parameters:

lat=<latitude>

lon=<longitude>

Returns the current weather conditions in game for the specified coordinates

```
{
  "environment" : {
    "lat" : "52",
    "lon" : "4",
    "cloudshigh" : 0.37,
    "cloudsmiddle" : 0,
    "cloudslow" : 0,
    "cloudsrain" : 0,
    "winddir" : 145.208386324509,
    "windspeed" : 5.00428176369996,
    "windu" : -2.85541,
    "windv" : 4.10968,
    "wavedir" : 134.146196570608,
    "waveheight" : 0.219613565723978,
    "wavelength" : 0.391742,
    "waveu" : -0.157587,
    "wavev" : 0.152959,
    "curu" : -0.113867,
    "curv" : -0.1769,
    "temperature" : 13.203,
    "fog" : 0.197978,
    "snow" : 0,
    "rain" : 0,
  }
}
```

cloudshigh	- High altitude cloud coverage (value from 0 to 1)
cloudsmiddle	- Medium altitude cloud coverage (value from 0 to 1)
cloudslow	- Low altitude cloud coverage (value from 0 to 1)
cloudsrain	- Rain clouds (value from 0 to 1)
winddir	- Wind direction as compass angle
windspeed	- Wind speed in m/s
windu	- Wind vector u component in m/s

windu	- Wind vector v component in m/s
wavedir	- wave direction
waveheight	wave height as value from 0 to 1 (actual wave height in meters is computed in game based on the terrain depth)
wavelength	wave length as value from 0 to 1 (actual wave length in meters is computed in game based on the terrain depth)
waveu	- Normalized wave vector u component
wavev	- Normalized wave vector v component
curu	- Current vector u component in m/s
curv	- Current vector v component in m/s
temperature	- Temperature in Celsius
fog	- Fog density as value from 0 to 1
snow	- Snow probability as value from 0 to 1
rain	- Rain probability as value from 0 to 1

Retrieve information on boats

<https://backend.sailaway.world/cgi-bin/sailaway/TrackAllBoats.pl>

parameters:

key=<your key>

The position information of all boats that have been online in the past 7 days is returned.

```
{
  "boats": [
    {
      "usrnr" : 20,
      "username" : "Richard Knol",
      "ubtnr" : 20244,
      "ubtname" : "Manta Ray",
      "ubtlat" : 39.4702611350057,
      "ubtlon" : 5.47035268244608,
      "ubtheading" : 41.264,
      "ubtspeed" : 1.6,
      "ubtbtpnr" : 2,
      "ubtmisnr" : 0,
      "online" : 0,
    },
  ],
}
```

usrnr	- sailaway user id of the owner of the boat
username	- name of the owner
ubtnr	- boat id
ubtname	- boat name
ubtlat	- latitude
ubtlon	- longitude
ubtheading	- heading of the boat in compass degrees
ubtspeed	- boat speed in water in m/s
ubtbtpnr	- boat type id (1 - 38' cruiser, 2 - Mini transat, 3 - Caribbean Rose, 4 - Cruising Cat, 5 - 50' Performance Cruiser, 6 - Nordic Folkboat (training version), 7 - Nordic Folkboat)
ubtmisnr	- id of the tutorial, challenge or race that the boat is currently sailing
online	- 1 if one of the crewmembers of the boat is online or has been online in the past 5 minutes

Optional parameters:

usrnr - to retrieve the boats of 1 user
 ubtnr - to retrieve the data of 1 boat
 misnr - to retrieve the data of all boats in a specific race or challenge

If one of the optional parameters is used, the returned records contain a few extra fields:

```
{
"boats": [
  {
    "usrnr" : 20,
    "usrname" : "Richard Knol",
    "ubtnr" : 20244,
    "ubtname" : "Manta Ray",
    "ubtlat" : 39.4702611350057,
    "ubtlon" : 5.47035268244608,
    "ubtheading" : 41.264,
    "ubtspeed" : 1.6,
    "ubtbtpnr" : 2,
    "ubtmisnr" : 0
    "online" : 0,
    "ubttruewinddir" : 42.2043,
    "ubttruewindangle" : 0.94186,
    "ubtappwindangle" : 0.924066,
    "ubttruewindspeed" : 4.84194,
    "ubtappwindspeed" : 4.93517,
    "ubtranaground" : 0,
    "ubtcourseoverground" : -4.14468,
    "ubtspeedoverground" : 0.0709601,
  },

```

ubttruewinddir - Wind direction in compass degrees
 ubttruewindangle - Angle of the wind to the boat in degrees
 ubtappwindangle - Apparent wind angle in degrees
 ubttruewindspeed - Speed of the wind in m/s
 ubtappwindspeed - Speed of the apparent wind in m/s
 ubtranaground - 1 if the boat has run aground
 ubtcourseoverground - true course of the boat with the effects current and drift included
 ubtspeedoverground - true speed of the boat in the direction of ubtcourseoverground

Retrieve races or challenges

<https://backend.sailaway.world/cgi-bin/sailaway/GetMissions.pl>

parameters:

key=<your key>

race 1 - to retrieve races, 0 (or omit) - to retrieve challenges

activeonly 0-retrieve all future or past races as defined by hist parameter, 1 -

retrieve all races that have already started but have not yet finished based on if the total course distance is sailed at the theoretical average speed of 100 miles per day.

hist 0 - upcoming races only, 1 - to retrieve both upcoming races and races

with a start in the past (see also the active only parameter)

btpnr (optional) retrieve only races or challenges for a specific boat type

Returns list of challenges or races (internally called missions)

```
{
"missions" : [
  {
    "misnr" : 13128,
    "mismisnrorig" : 13128,
    "mistitle" : "Christian's Escape",
    "misdscr" : "Pitcairn, Easter, Horn to Falklands\nby
Humulus"
    "misstart" : "Thursday 03-05-2018 19:00 UTC",
    "misbtpnr" : 5,
    "btptype" : "50' Performance Cruiser",
  },

```

misnr	- Id of the race or challenge
mismisnrorig	- Id of the recurring race
mistitle	- Title of the race or challenge
misdscr	- Description of the race or challenge
misstart	- Start date and time as string
misbtpnr	- Mandatory boat type
btptype	- Name of mandatory boat type or null
misdistance	- Total distance of the course

Retrieve course for race or challenge

<https://backend.sailaway.world/cgi-bin/sailaway/GetMissionCourse.pl>

parameters:

key=<your key>

misnr id of the race or challenge

Returns an ordered list of buoys and their positions

```
{
"missioncourse" : [
  {
    "micnr" : 4037,
    "miclat" : 22.255,
    "mictypename" : "port startline buoy",
    "miclon" : 114.2674,
    "mictype" : 1,
    "micname" : ""
  },
  {
    "mictypename" : "starboard startline buoy",
    "miclat" : 22.255,
    "miclon" : 114.2633,
    "micnr" : 4038,
    "mictype" : 2,
    "micname" : ""
  },
  {

```

```

        "micnr" : 4039,
        "miclon" : 174.7758,
        "miclat" : -36.8344,
        "mictypename" : "port finishline buoy",
        "micname" : "",
        "mictype" : 7
    },
    {
        "micname" : "",
        "mictype" : 8,
        "micnr" : 4040,
        "miclat" : -36.8315,
        "miclon" : 174.7772,
        "mictypename" : "starboard finishline buoy"
    }
]
}

```

micnr - Internal id of the buoy
 micname - Name of the buoy
 mictype - 1 port startline, 2 starboard startline, 3 CW buoy, 4 CCW buoy, 5 port gate, 6 starboard gate, 7 port finishline, 8 starboard finishline
 mictypename - Description of buoy type
 miclat - Latitude
 miclon - Longitude

Retrieve leaderboard for race or challenge

<https://backend.sailaway.world/cgi-bin/sailaway/GetLeaderboard.pl>

parameters:

key=<your key>

misnr id of the race or challenge

Returns a list of participants with their position and rank

```

{
  "leaderboard" : [
    {
      "results" : [
        {
          "misnr" : 11814,
          "teanr" : null,
          "teaname" : null,
          "usrnr" : "2052",
          "username" : "Tsyal",
          "ubtnr" : "23197",
          "ubtname" : "Tsyal 50",
          "btptype" : "50' Performance Cruiser",
          "rank" : "1",
          "resultdescr" : "7d. 7h. 24m. 40s.",
          "status" : "Finished",
          "racing" : 0,

```

```

    "racetime" : 631480.4850432,
    "finished" : 1
    "finishtime" : "7d. 7h. 24m. 40s.",
    "wind" : "344°, 7.4kn.",
  },
  {
    "misnr" : 11814,
    "teanr" : null,
    "teaname" : null,
    "usrnr" : 9640,
    "username" : "Patrick70119",
    "ubtnr" : "28786",
    "ubtname" : "Peyton-Grace",
    "btptype" : "50' Performance Cruiser",
    "rank" : 30,
    "resultdescr" : "S3°18.94' E142°49.907', Hdg: 141°,
Spd: 0kn., 2778.2nm. to mark 1/1",
    "status" : "Racing",
    "racing" : 1
    "racetime" : 8066.4278296,
    "finished" : 0,
    "finishtime" : "-",
    "wind" : "284°, 13.6kn.",
    "pos" : "S3°18.94' E142°49.907'",
  },
},

```

misnr	- Id of the race or challenge
teanr	- Id of the team or null
teaname	- Name of the team or null
usrnr	- Id of the owner of the boat or null
username	- Name of the boat owner or null
ubtnr	- Id of the boat
ubtname	- Name of the boat
btptype	- Boat type as string
rank	- Computed rank
resultdescr	- Description of the time or position
status	- Current status: Racing, Finished, Abandoned race
racing	- 1 if still racing
racetime	- race time since start in seconds
finished	- 1 if finished
finishtime	- finish time as string
wind	- current wind conditions or wind conditions at time of finish as string
pos	- position as string if still racing

Retrieve badges

<https://backend.sailaway.world/cgi-bin/sailaway/GetAllBadges.pl>

parameters:

key=<your key>

usrnr

id of the user who earned the badges. All badges if omitted

Returns a list of badges

```
{
  • "badges": [
    ○ {
      ■ "showonboat": 1,
      ■ "bdgnr": 442,
      ■ "bdgname": "Bligh's Bounty",
      ■ "showinchat": 1
    }
    ○ {
      ■ "showinchat": 0,
      ■ "showonboat": 1,
      ■ "bdgnr": 56,
      ■ "bdgname": "Early Access Pioneer"
    }
    ○ {
      ■ "bdgname": "French Riviera Challenge",
      ■ "bdgnr": 5,
      ■ "showonboat": 1,
      ■ "showinchat": 0
    }
    ○ {
      ■ "bdgname": "Grise Fiord Long Race",
      ■ "showonboat": 1,
      ■ "bdgnr": 31,
      ■ "showinchat": 0
    }
    ○ {
      ■ "showinchat": 0,
      ■ "bdgname": "Howth Regatta Long Race",
      ■ "bdgnr": 14,
      ■ "showonboat": 1
    }
    ○ {
      ■ "showinchat": 0,
      ■ "bdgname": "Member of Team Sailaway",
      ■ "showonboat": 1,
      ■ "bdgnr": 12
    }
    ○ {
      ■ "bdgname": "Bering Hardship Challenge",
      ■ "showonboat": 1,
      ■ "bdgnr": 11,
      ■ "showinchat": 0
    }
    ○ {
      ■ "showinchat": 0,
      ■ "bdgname": "Sunny Canaries Challenge",
      ■ "bdgnr": 7,
      ■ "showonboat": 1
    }
  ]
}
```

```
• ]  
}
```

bdgnr	- Id of the badges
bdgname	- Name of the badge
showinchat	- If 1 this badges is used to display in chat
showonboat	- If 1 a sticker is placed on the user's boats

The image itself can be downloaded by calling:

<https://backend.sailaway.world/cgi-bin/sailaway/badgeimg.pl?bdgnr=<bdgnr>>