



**MOBILIS**

Name:

**MOORING BUOYS AND CHAIN SIZING** Date:

### MOORING BUOY(S) CHARACTERISTICS

S.W.L. required:

*S.W.L. = Safe Working Load (safety factor of 3 on breaking load)*

Type of mooring point (ex: QRH, shackle ...):

Equipment required (ex: light, ladder...):

Color of the mooring buoy(s):

If a light is required:

Type of light:

Light range in Nautical Miles (NM):

Light transmissivity coefficient (TC): (0.74)

Light rhythm(s):

Focal plane (m):

### SITES & CONDITIONS

#### SITE GENERAL DESCRIPTION

#### IMPLANTATION

Geodesies reference:

Latitude:

Longitude:

Localization:

Nature of sea bottom:

#### SITE CONDITIONS

#### DEPTH

Hydrographical Depth:

Maximum tidal range:

Cyclonical surge:



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For the site conditions requested below, two scenarios shall be described:

- **MAXIMAL CONDITIONS IN THE AREA** = Maximal environmental conditions in the mooring area
- **OPERATIONAL CONDITIONS** = Maximal conditions of use of the mooring buoy. Beyond these conditions, the ships will not be moored on the buoy(s)

This distinction is necessary to optimize the equipment selection and to guarantee its survival under maximum conditions.

## WAVES

	MAXIMAL CONDITIONS IN THE AREA	OPERATIONAL CONDITIONS
Maximum wave height (m)		
Corresponding wave period (sec)		
Wave origin direction (°)		
Cyclonical wave height (m)		
Significant wave height (m)		

## WIND

	MAXIMAL CONDITIONS IN THE AREA	OPERATIONAL CONDITIONS
Average wind speed (m/s)		
Maximum wind speed (m/s)		
Maximum wind origin direction (°)		

## CURRENT

	MAXIMAL CONDITIONS IN THE AREA	OPERATIONAL CONDITIONS
Average current speed (m/s)		
Maximum current speed (m/s)		
Maximum current origin direction (°)		

Is the current direction changing with the depth?



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### MOORING CONFIGURATION

Please provide a description / general arrangement of the mooring configuration required (with indication of the environmental loads directions) along with the information listed below:

Number of buoys requested:

Number of ships moored per buoy:

Space available to set up the mooring system:

Restriction to respect for the swinging radius:

Is there any environmental constraints to take into account (for example: protected area where the chain should not be in contact with the sea bottom)?

What are the available equipment for the installation (ship, crane...)?

Prohibition(s) in force in the area (prohibited mooring, prohibition(s) related to dredging ...)

Type of anchorage required:

Sinker

Anchor

Mixt (Anchor/Sinker)

Pile / helicoidal screw anchor

### SHIP(S) CHARACTERISTICS

Please provide a General arrangement / Photos of the ship(s) along with the information listed below:

Length over all (LOA) :

Depth (D) :

Length between perpendiculars (LPP) :

Air draft :

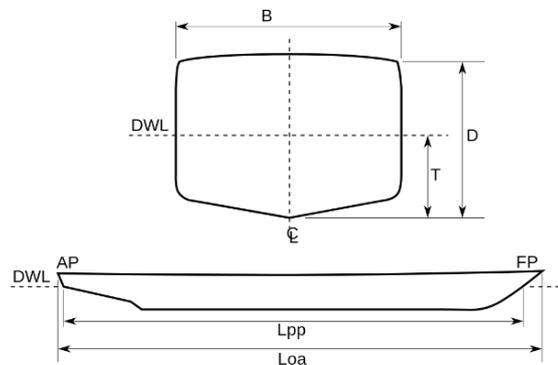
Breadth overall (B) :

Lightship :

Minimal draft (T min) :

Deadweight :

Maximal draft (T max) :





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COMMENTS

