

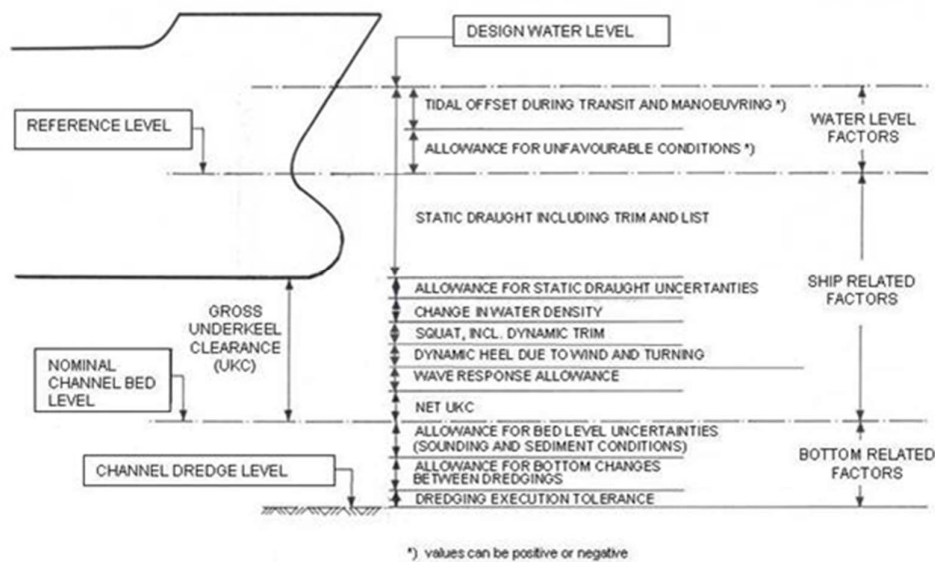
2.1.3.2 Allowance for Bottom Changes between Dredging

The allowance for bottom changes between dredging has to do with possible sedimentation or siltation that could occur between dredging. This allowance is sometimes known as the 'Advance Maintenance' allowance. The dredged depth is purposely dredged deeper than the required nominal depth to give a cushion for anticipated sedimentation and increase the time before the next dredging cycle will be required. A similar allowance is needed for siltation of natural channels that are not normally dredged.

2.1.3.3 Dredging Execution Tolerance

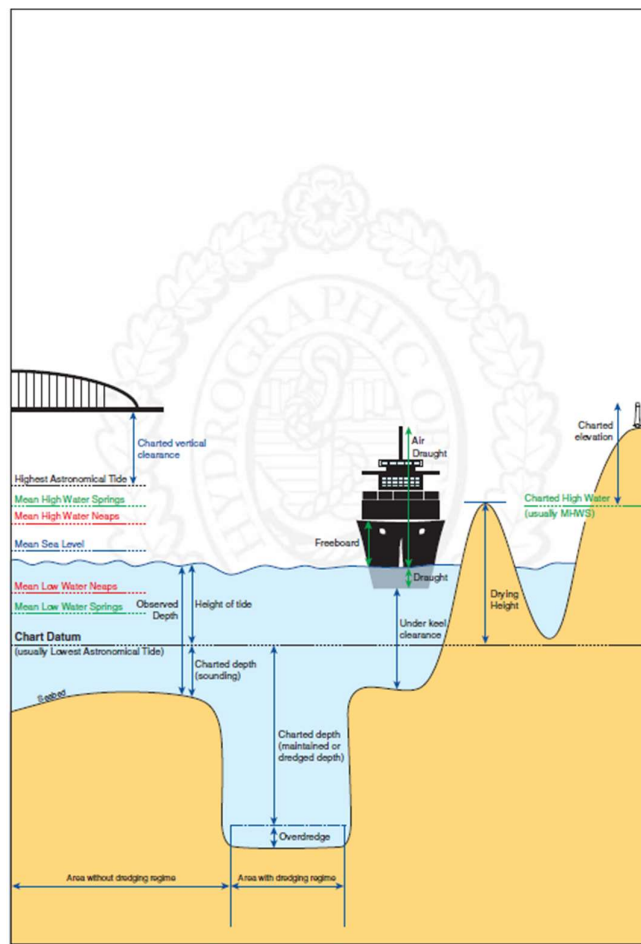
The dredging execution tolerance is an over-dredging tolerance to ensure the nominal depth is achieved. The dredged bottom is not perfectly flat after dredging, so this overdredge depth is often included to ensure the nominal depth is achieved.

Design depth is not defined withing PIANC – when talking about the design of a e.g. a channel, the term “nominal depth” is used.



NP100 Glossary Depth Terminology / Industry Practice

PIANC / Industry practice is reflected in the image below



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Depth Diagram and associated Glossary extracted from the ADMIRALTY Mariner's Handbook, NP100.

Maintained depth: The depth at which a channel is kept by human influence, usually by dredging (GI Registry) Units: decimal metres with reference to a specific Sounding Datum.

Overdredge: An additional depth margin provided by a dredging operation to ensure that the depth at a specific location is never less than the pre-determined maintained depth over the interval between programmed dredging operations (NP100). Units: decimal metres

Sounding: Measured or charted depth of water (may be a drying height), or the measurement of such a depth, which has been reduced to a vertical datum. (GI Registry)

Proposal to align PIANC, Industry and IHO:

PIANC	NP100 / Industry Practice	Proposal
Nominal depth	Maintained depth	Maintained depth
Overdredge	Overdredge	Overdredge
Sounding	Sounding	Sounding

PIANC has also been asked to align with IHO standards, as the confusion during design discussions starts with the use of different nomenclature.