
Launch of a Download Site for the Calculation Program for Fairway Dimensions, “J-Fairway”

Port Planning Division, Port and Harbor Department
AKAKURA Yasuhiro, Head of Division (Dr.Eng.)

(Keywords) *Fairway, width, depth, J-Fairway*

1. Calculation Program for Fairway Dimensions

The 2007 amendment to “Technical Standards and Commentaries for Port and Harbour Facilities in Japan” prescribes a Class 2 verification method of fairway dimensions. This is a design method that takes account of the performance of vessels and other factors as concretely as possible when it is possible to specify the design vessel and the navigational environment. At the same time as the design method, the Japan Institute of Navigation and NILIM have now developed the calculation program J-Fairway for the benefit of designers.

2. Studies by PIANC

In its WG49 “Horizontal and vertical dimensions of fairways”, the international navigation congress PIANC has discussed methods of calculating fairway dimensions on numerous occasions since 2005. In particular, Japan’s new design method has been highly praised, and is due to be included in the final report.

3. Launch of download site

To make J-Fairway easily accessible by anyone wishing to use it, PIANC WG49 has requested the operation of download site. Therefore, with the assistance of the Technological Information Division of the Administrative Coordination Department, a download site has been launched on the NILIM web site. Even though the final report of PIANC WG49 has not yet been published, J-Fairway was downloaded 55 times by users in Japan and abroad between the start of operation in October and the end of the year. Designers are encouraged to make positive use of this program when planning fairway dimensions.

[Reference]

<http://www.y.sk.nilim.go.jp/kakubu/kouwan/keikaku/J-Fairway-e.htm>