

Relationship of Marine Cadastre and Marine Spatial Planning in Indonesia

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SUMMARY

The *Federation Internationale des Géomètres* (FIG) statement on the cadastre has been widely accepted and is now an established principle of land administration systems. The cadastre, a parcel based land information system linking various administrative considerations (such as rights, restrictions and responsibilities) to geometric descriptions of areas of land. It is also a valuable means of linking records of ownership and potential utilities (FIG, 1995).

In the marine environment, however, the concept of the cadastre is still quite unclear due to problems such as the discontinuity of land and marine areas, as well as various technical, legal and institutional issues.

Marine surface can be partitioned as marine parcels for multi usage such as cultivation of seaweed, pearl farming, fishing leases, shipping or navigational lanes and marine protected areas. Marine cadastre concept also can be applied on the sea bottom area for sand mining and laying the underwater cable. There should be private rights for private and public uses similar to land based cadastre for both owner and investor, such as private rights, rights to use, rights to build and rights to cultivate.

In Indonesia, marine spatial planning is in the early stage of implementing a marine cadastre. This article will highlight these issues associated with the development of marine cadastre in an Indonesian context, especially in the coastal zone.

BIOGRAPHICAL NOTES

M. Sigit Widodo obtained a Bachelor in Geodetic Engineering from the University of Gadjah Mada (Indonesia) and at the final stage of Master by Research program at Centre for Spatial Data Infrastructures and Land Administration, Department of Geomatics, the University of Melbourne. Sigit is a member of the Indonesian Surveyors Association (ISI) and the Indonesian Society for Remote Sensing (MAPIN). He is currently working at Coastal Resources Management Project II, Indonesia as a Coastal Spatial Planning Specialist. His current research interests include Marine Cadastre, Spatial Data Infrastructure and ocean governance issues.

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