



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_19669
Title of the Manuscript:	Sverdrup Munk Bretschneider (SMB) Modification for Wave Height Predictors in Java Sea
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments		
Minor REVISION comments	The article is very interesting and studies are intended to improve the accuracy level of prediction by using modified SMB method while comparing the results adopting other various method. Thus Gap of work is well defined and results are also found positive. Authors are required to add / amend followings: ABSTRACT i). Replace “....<i>International water</i>...” by...global watersheds....” ii). Acronyms / Nomenclatures like: NLARX, BMKG, RMSE etc. be written in full and then be placed in the text in short form.	Yes, I agree with your suggestion Sverdrup Munk Bretschneider (SMB) methods is a semi-empirical method that has been used for the prediction of the significant wave height – H_s in global watersheds. Indonesian waters are surrounded by thousands of islands and wind movement has different nature with the waters of free movement. Java sea is flanked by the waters of Java and Borneo island. Sea breeze movement in Indonesia as a result of changes in atmospheric pressure in Asia and Australia. SMB methods require modification in the waters of Indonesia, so as to be used as a predictor in accordance with the high degree of accuracy. In this paper, a propose



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	INTRODUCTION References be placed in sequential order avoid duplicity in the text.	methods of designing the predictor with a modified SMB. The method compared by numerical methods of Nonlinear Autoregressive Exogeneous (NLARX) and expertise method of Artificial Neural Network (ANN). Case studies conducted in the Java sea along Surabaya – Banjarmasin cruises. This line is a busiest sea transportation in Indonesia. The data obtained from Badan Meteorologi, Klimatologi dan Geofisika (BMKG), the agency of meteorology, climatology and geophysics in Indonesia. The data are the wind speed and significant wave height. The length of data in interval 6 years, since 2006 until 2011. Predictor results shows a Root Mean Square Error - RMSE of modified SMB is 0.05, while NLARX method and ANN respectively are 0.24 and 0.16. Yes, I agree
<u>Optional/General</u> comments	Article is well structured	