

Date of approval: January 2017

No.	Related Documents	Status *
1	Latest version of Tide table	Active
2	ISPS ship pre-arrival form (F-51/52.001)	Active
3	Maritime Declaration of Health form (F-51/52.021)	Active
4	Letter to all Shipping agents dated September 3 rd , 2015 - Accessibility Commewijne- and Cottica River. AMNB/BM/mb 1550/733	Replaced by Shipping notice 2016/1 Commewijne - and Cottica River
5	Chart no SR2219 Commewijne – and Cottica River to Moengo	Active

Accessibility Commewijne - and Cottica River

The accessibility of the Commewijne River depends on the river bar in the mouth of the Commewijne River. The bar begins at Fort Nieuw-Amsterdam and extends to Leliëndaal. The minimum depth is set at 2.60 metres (m) referenced to L.W.S. (low-water spring). The average rise is 2.5 metres across the mouth of the Commewijne River by which the average water depth at average high tide is 5.40 metres. This is the average depth which means that at high spring tide the water depth is slightly higher and at neap tide lower. The calculated depths at MHWN and MHWS are shown in the table below.

Table 1: calculated depths at MHWN and MHWS

WL	CD + WL =	Depth	Keel clearance	Draft
MHWN	2.60 m + 2.15 m	4.75 m	0.30	4.45 m
MHWS	2.60 m + 2.80 m	5.40 m	0.30	5.10 m

Note:

The calculations above are based on mean values. The actual tide can be lower or higher than the mean values. The day to day tidal information is published in the annual tide tables of the Maritime Authority of Suriname.

Main Berth Moengo

The minimum depth at the port of Moengo is 4.7m referred to L.W.S. (see Figure 1). The average rise is 1.8 m which makes the average water depth at average high tide 6.5 m at the port. The water levels can be reduced due to extreme drought in the dry season.

Tidal comparison between Commewijne River bar and Paramaribo (at MAS)

Near the bar of the Commewijne River, at Fort New Amsterdam, HW and LW will be fifty (50) minutes earlier on, HW height 5 centimetres (cm) = 0.5 decimetres (dm)) lower and LW height 10 cm (= 1dm) higher than at the tide station of the Maritime Authority Suriname (MAS) in Paramaribo. The HW is 6 hour later at Moengo than at Paramaribo.

Additional requirements for ships to navigate in de Cottica River without tugboat assistance:

A.

1. Equipped with double (outturning) propellers ;
2. Fitted with double rudders in the prolongation of the propellers shafts;
3. Alternatively fitted with bow thrusters ;
4. L.O.A. Maximum 120 metres.

B.

1. As mentioned in A1 en A4;
2. Fitted with a Flap rudder;
3. Fitted with a bow thruster.

C.

1. Single propeller, pitch propeller;
2. Equipped with a powerful working bow thruster
3. equipped with a single (flap) rudder;
4. L.O.A. maximum 105 metres.

D.

1. As mentioned in C2 and C3;
2. Single propeller being a standard propeller;
3. L.O.A. 90 metres.

Other conditions:

- a) Sufficient propulsion power in order to be able to pick up the speed of 10 knots.
- b) Equipped with an electric-hydraulic steering system
- c) Equipped with functioning communication tools such as VHF radio.
- d) Equipped with bright search light.
- e) The steering bridge situated on the stern. A not too low steering bridge that restrict the view forward.
- f) The view over both starboard and portside should be good.
- g) Good vessel maneuverability.

Ships with a L.O.A. of 60 m may only be fitted with a single screw and rudder, but must meet the requirements specified in a-g.

Summary:

- The river bar in the Commewijne River determines the draft of vessels to and from the Moengo port; namely average draft of 5.10 m at average high tide.
- At low tide ships should take into account the least depth of 4.7 m at LWS on the route to the Main Berth at Moengo, right passed the turning basin.
- Sea-going vessels up to 120 m should meet the requirements as stated in the "Requirements for ships to navigate in de Cottica River without tugboat assistance". If requirements are not met one tugboat assistance with a minimum of 1500 hp will be necessary. Vessels with a LOA of more than 120m and up to 165m require two tug boats with a minimum of 2000 hp.
- The maximum length of sea-going vessels entering the river is 165 m (two tug boats with minimum capacity of 2000hp required).
- The tugboats assisting the vessels should be fit for duty and have a licensed tugboat operator.

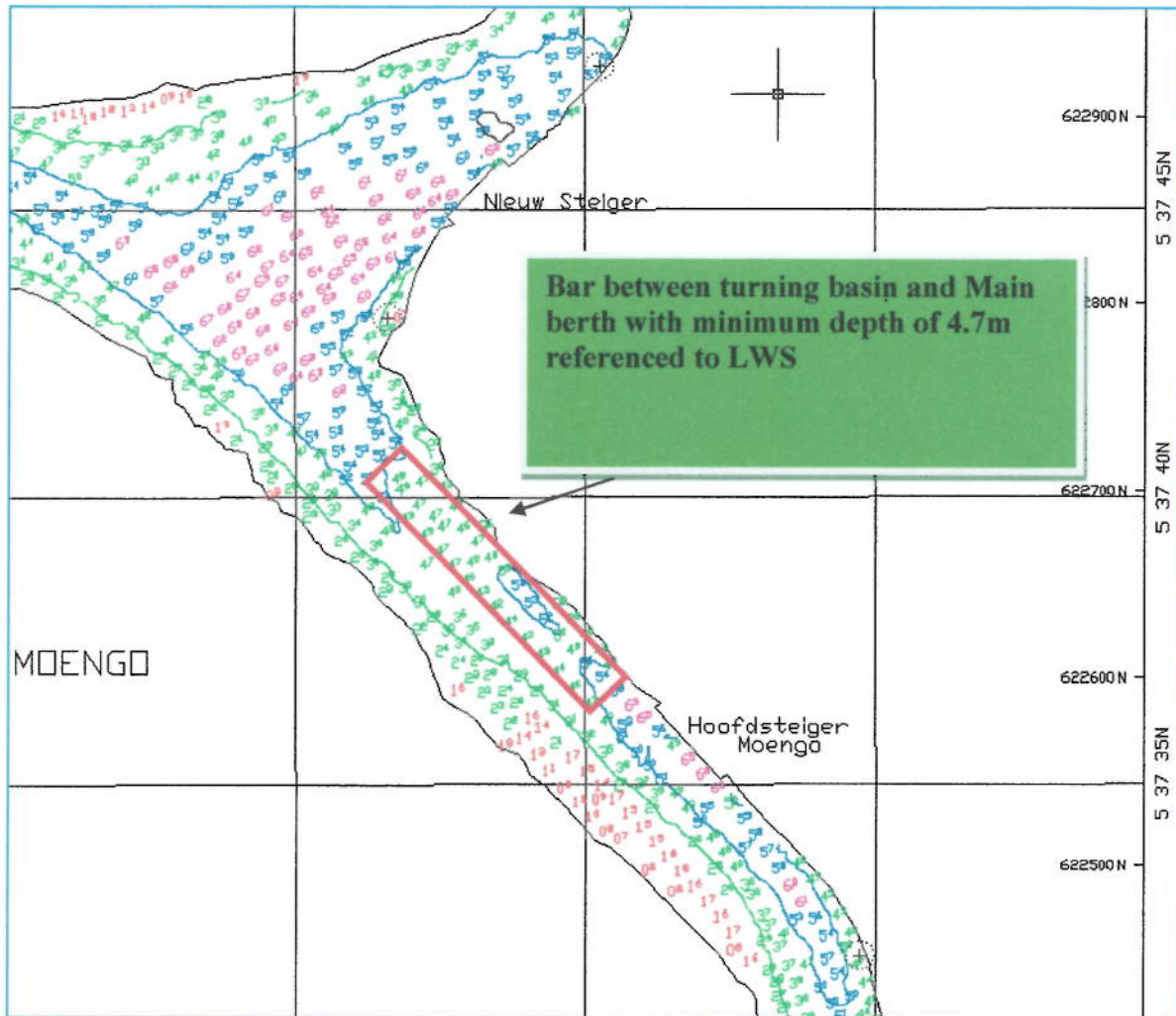



Figure 1: Indication bar in front of the Main Berth at Moengo

Note: This document is only for information purposes.

Approved by the
Maritime Authority Suriname,



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Director