

The Jewel of Muscat



Outline

- Background
- Design and construction
- Launching
- The voyage





Qantab







Construction site





Side rudders



the tiller for centre rudder











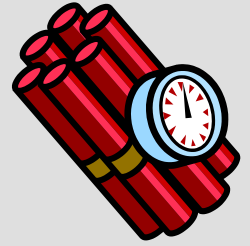


Launch preparation

- Slipway gradient
- Ballasting
- Tides
- Launch mechanism

Launch options

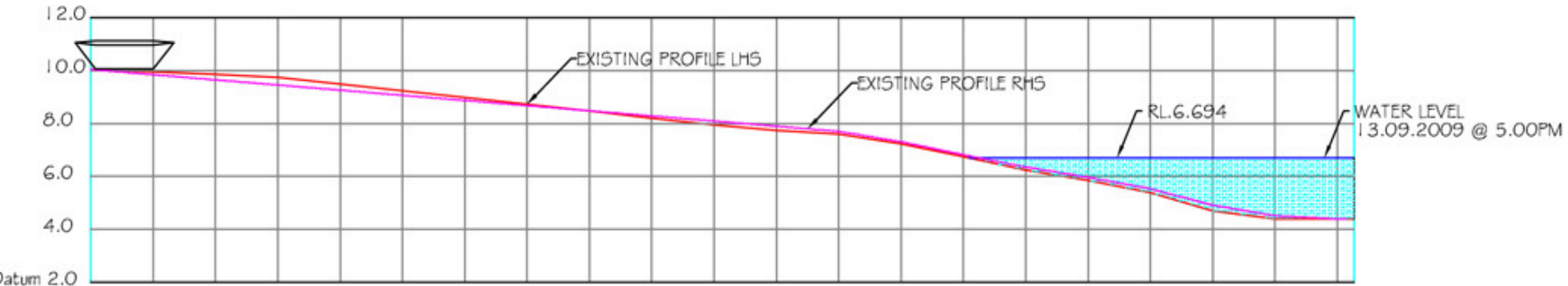
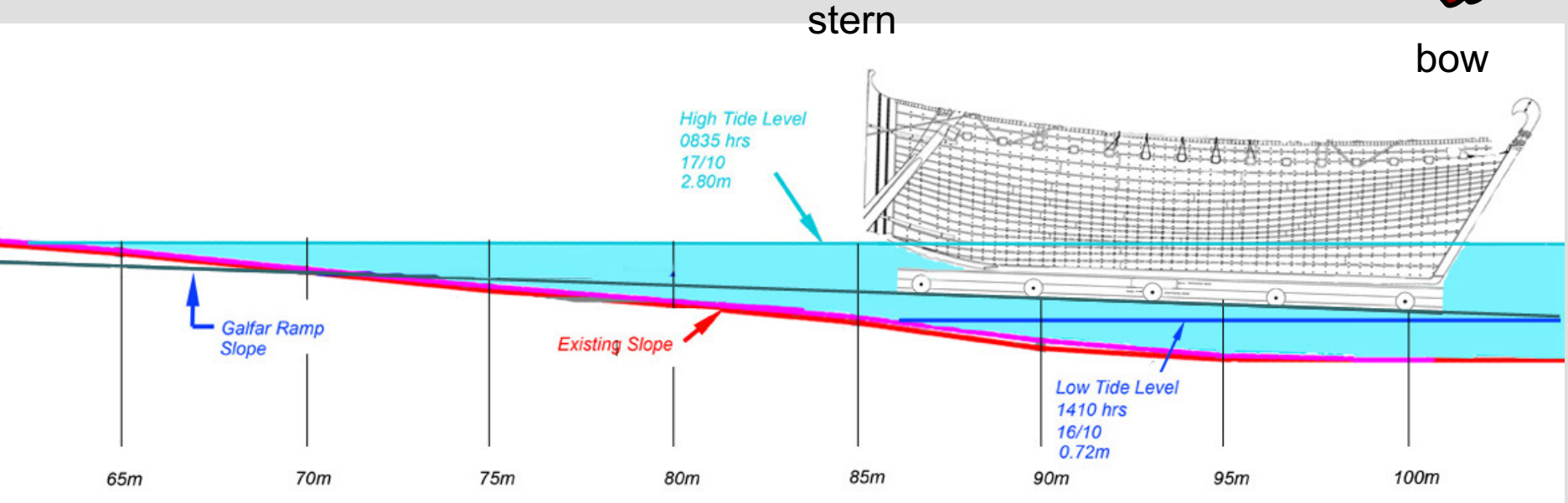
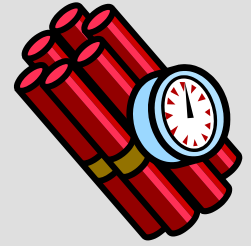
4 days to launch



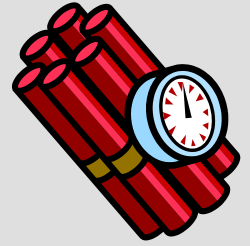
- Quick launch (high tide)
- Slow launch (high tide)
- Dry launch (low tide)

Slipway gradient

4 days to launch



4 days to launch

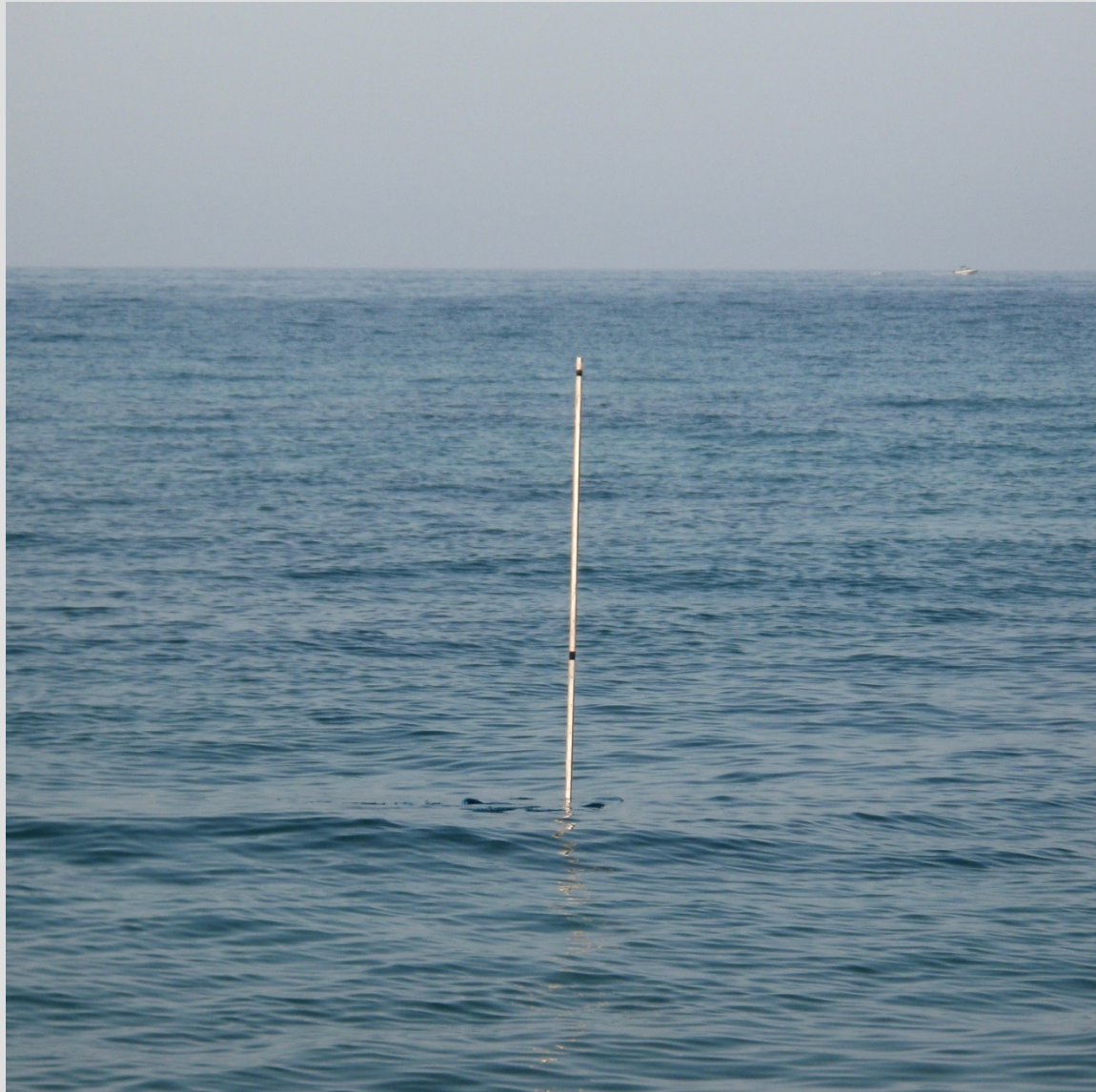
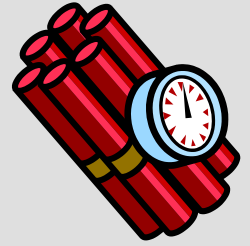


Ballasting – stability v. water depth

- Too much ballast = not enough water depth
- Too little ballast = boat may capsize
- Decision: 6 tonnes ballast

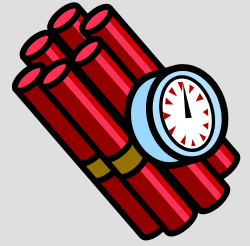
tides

4 days to launch



Launch mechanism: constraints

60hrs to launch

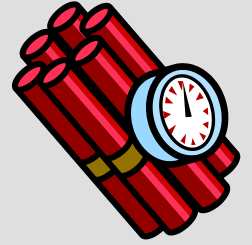


- Space
- Foundations for anchor points



Launch mechanism: constraints

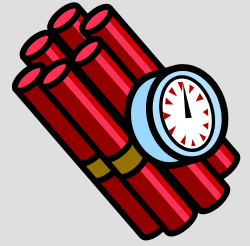
60hrs to launch



- Space
- Foundations for anchor points
- Lack of materials (rails, sleepers, winches)
- Time (concrete pour)

Launch mechanism: final solution

24hrs to launch







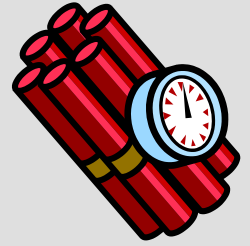
cradle

48 hrs to launch



cradle

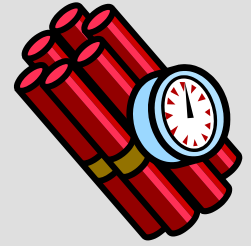
48 hrs to launch





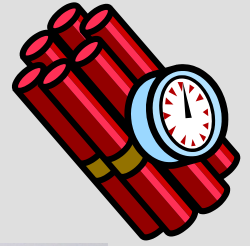
railway

48 hrs to launch



railway

26 hrs to launch



The launch itself

- First attempt - 0900 Saturday (high water)
- Second attempt – 0900 Sunday (1 hr before high water)
- Next tide 1 month away!

First attempt

8hrs to launch

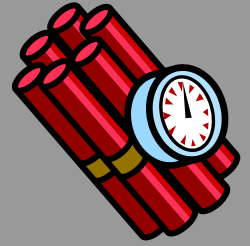




5hrs to launch

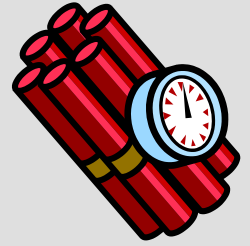


2hrs to launch

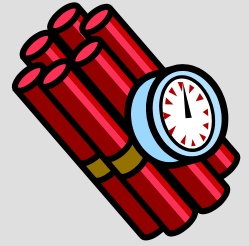


Loading ballast

1hrs to launch

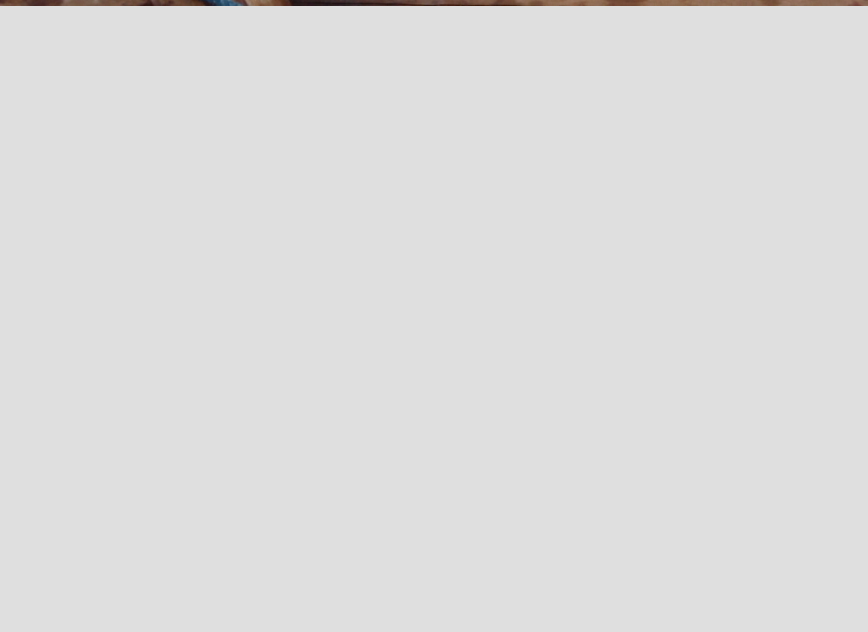
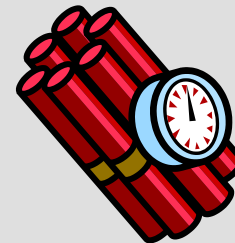


0hrs to launch



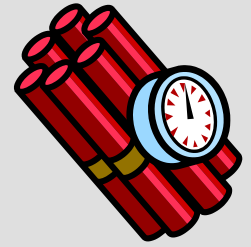


0hrs to launch



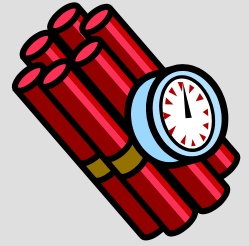
Sinusoidal rails!

-1hr to launch



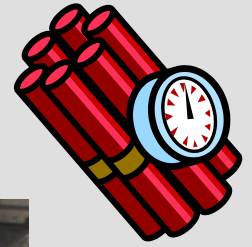
Rough seas

-1hr to launch



Effect of waves

-2hr to launch



second attempt

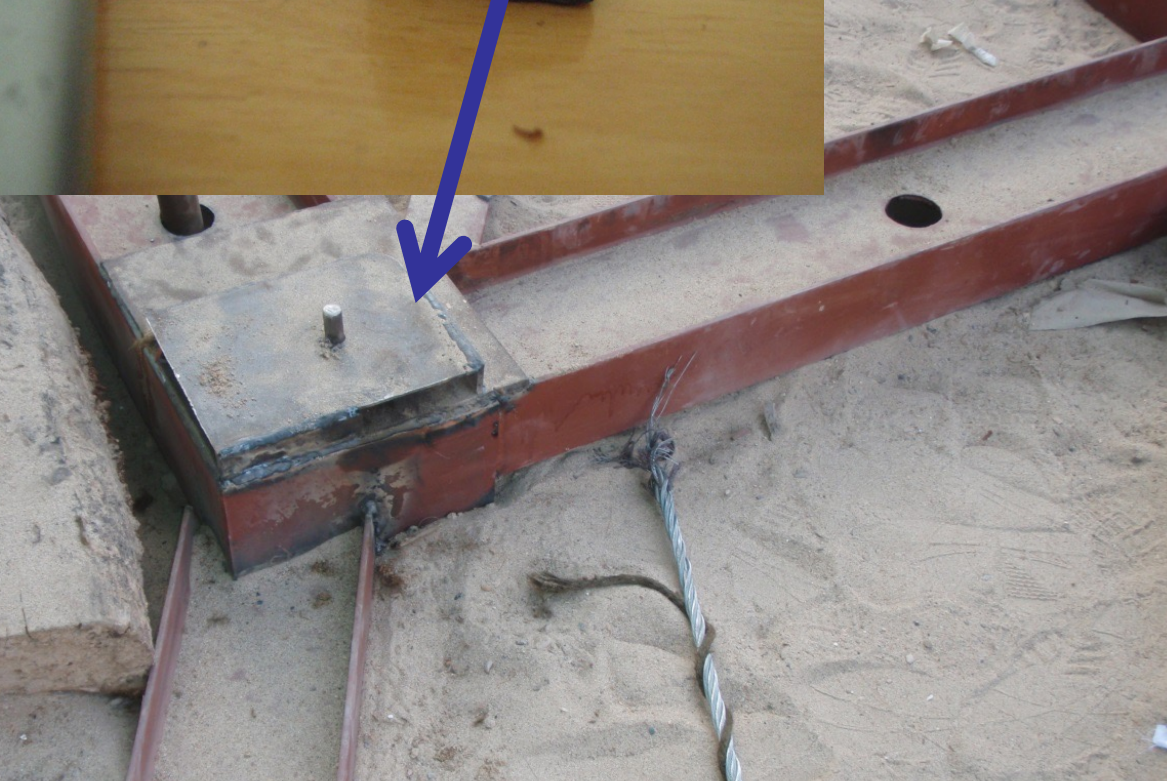


second attempt – success!





The real story





Iran
Tehran
Esfahan
Basrah
Mashhad
Ashgabat

Afghanistan
Islamabad
Kabul

Pakistan
Lahore
Karachi
Islamabad

India
New Delhi
Jaipur
Lucknow
Ahmedabad
Mumbai
Hyderabad
Chennai
Bengaluru
Kolkata

Bangladesh
Dhaka

China
Chengdu
Chongqing
Shanghai
Hangzhou
Guangzhou
Hong Kong
Hanoi

Myanmar (Burma)
Yangon

Thailand
Bangkok

Vietnam
Hanoi
Ho Chi Minh City

Malaysia
Kuala Lumpur

Singapore

Indonesia
Jakarta
Surabaya

Philippines
Manila
Cebu
Davao

Japan
Tokyo
Osaka
Nagoya

South Korea

Taiwan

Yemen

United Arab Emirates
Dubai
Abu Dhabi

Oman
Muscat

Arabian Sea

Persian Gulf

Bay of Bengal

Andaman Sea

Gulf of Thailand

South China Sea

East China Sea

Celebes Sea

Banda Sea

Java Sea

Timor Sea

Indian Ocean

Australia
Northern Territory
Western Australia

Yemen

Mozambique

Madagascar

Captain Saleh Al Jabri

“Our lives have depended upon her, in the most adverse weather conditions, on tossing seas and in driving winds. She has not failed us. She has surprised and perplexed us on many occasions. But she has proven loyal and true, exceeding our expectations, and above all protecting our lives.”



