

# DINAMIKA MUARA SUNGAI

# Muara Sungai

- ▣ Fungsi
  - Outlet sungai
  - Navigasi kapal
- ▣ Permasalahan
  - Penutupan muara sungai oleh sedimen

# Muara Sungai

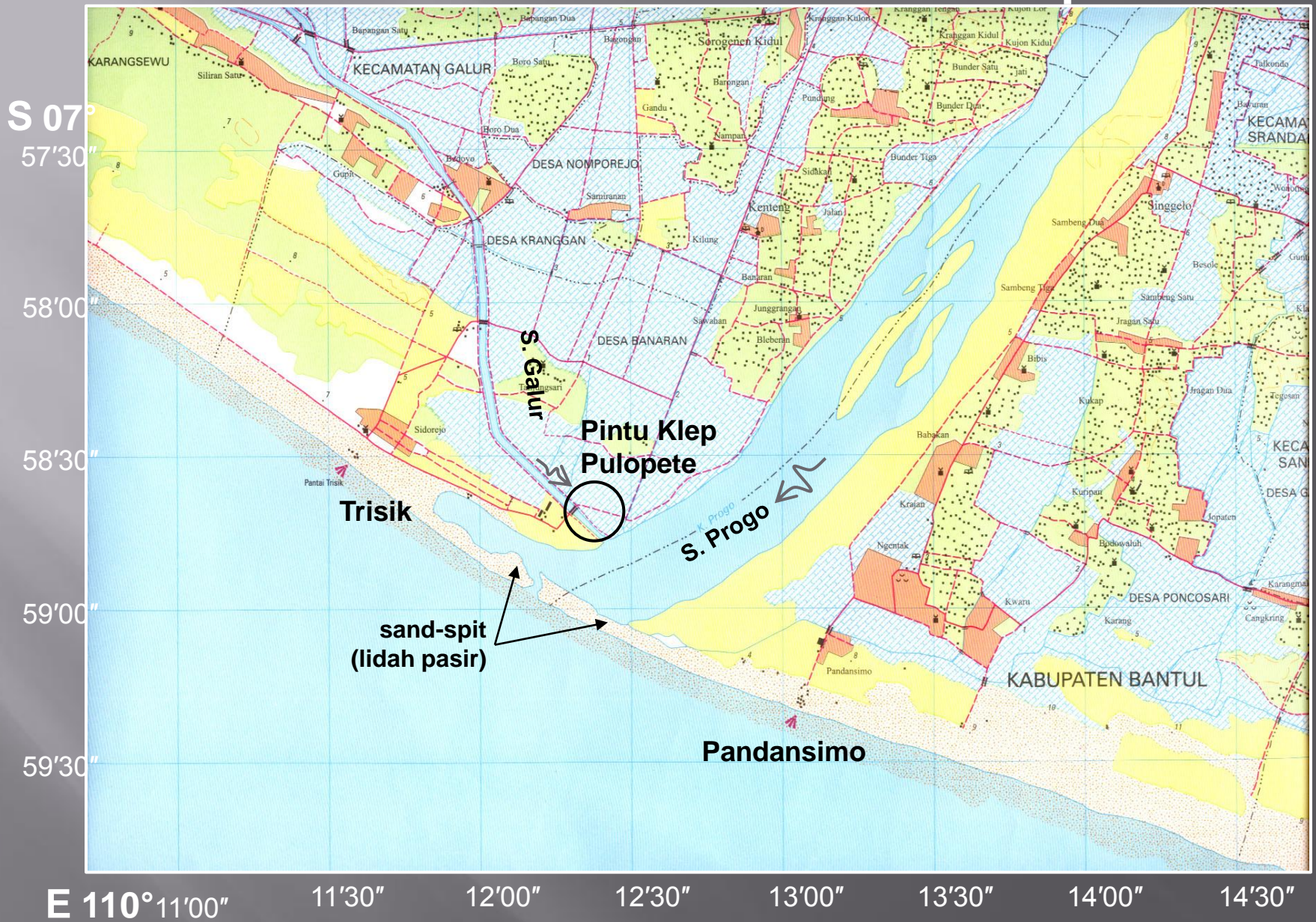
- ▣ Contoh kasus
  - Muara Sungai Progo di Yogyakarta

# MUARA K. PROGO

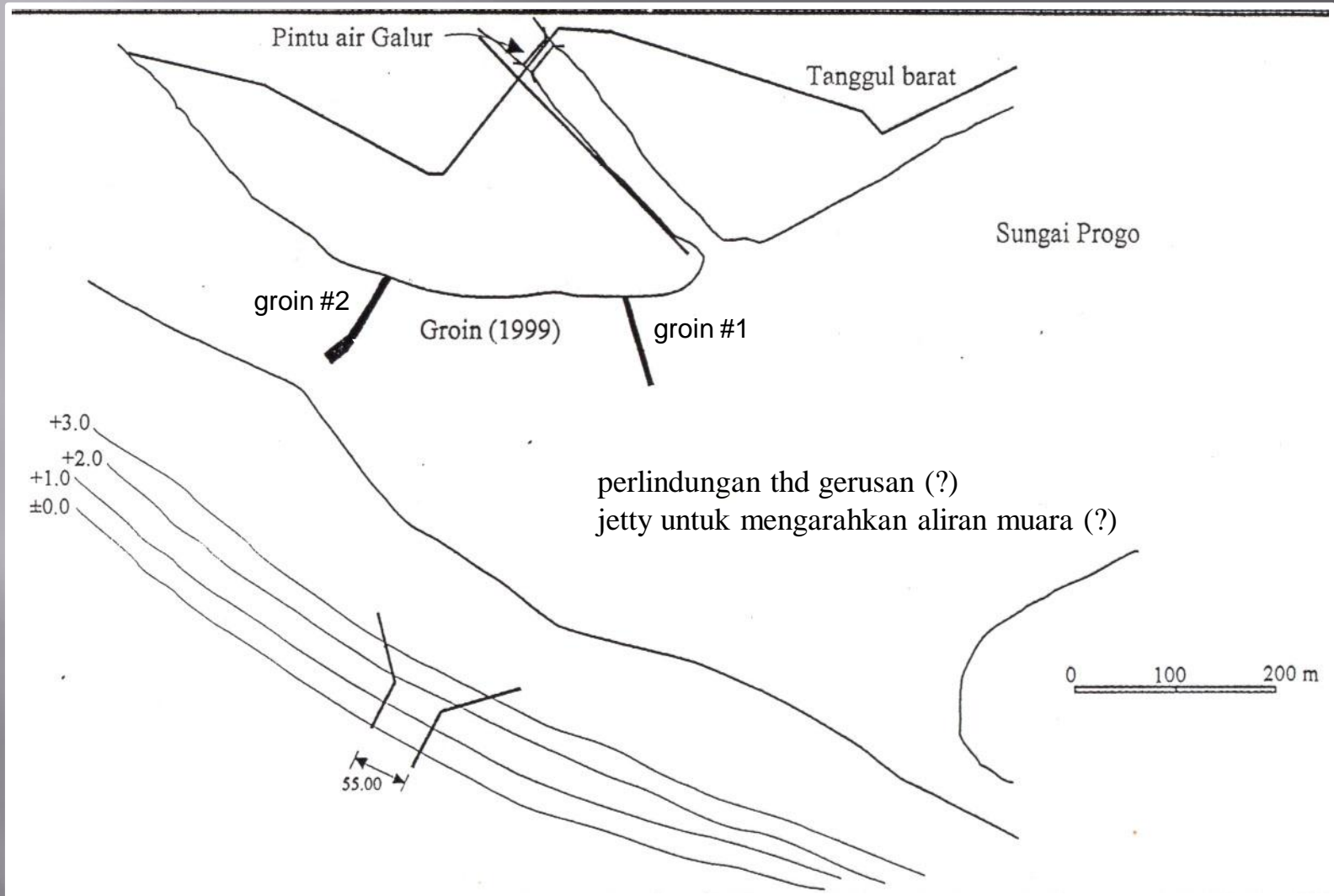
Stabilisasi Muara

*Foto dan Naskah  
Istiarto*

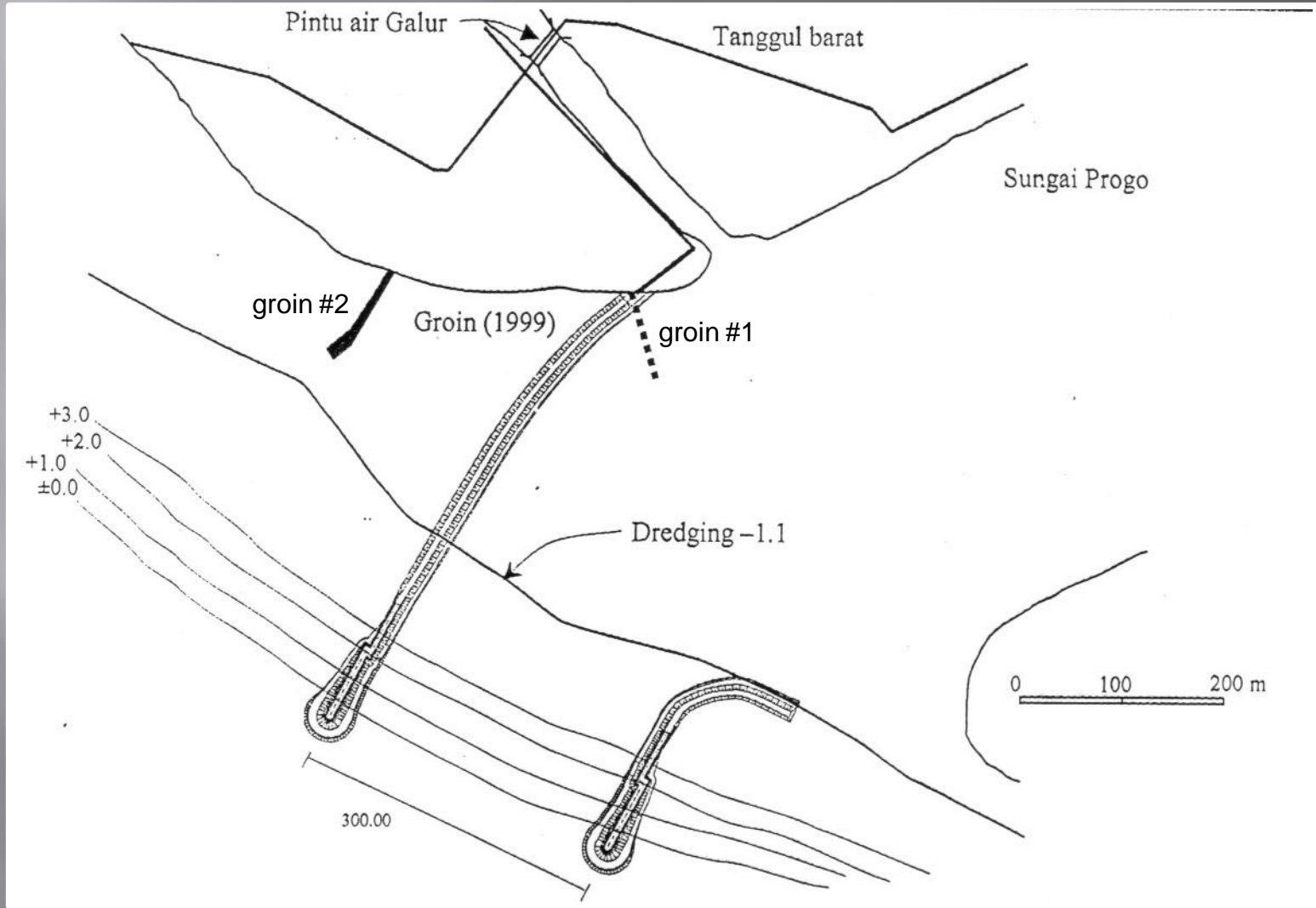
# Peta Rupa Bumi 1999







# Desain BCEOM

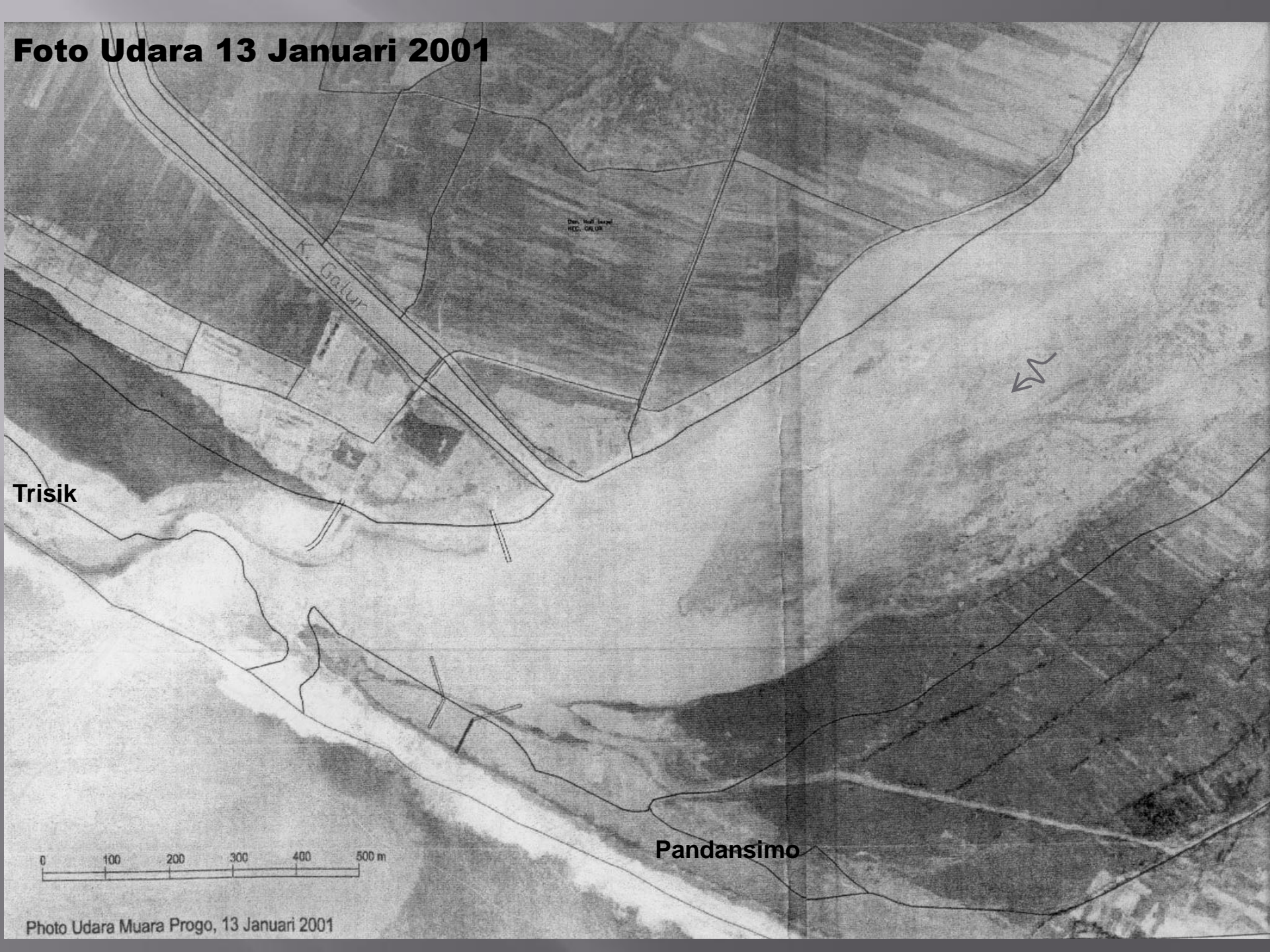


# Jetty Alternatif

(Arief Nuryanto & Nur Yuwono, 2002)



**Foto Udara 13 Januari 2001**

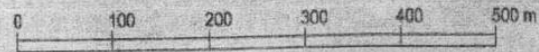


**Trisik**

Dus. Kuli Besar  
REC. GILOR

K. Galur

**Pandansimo**

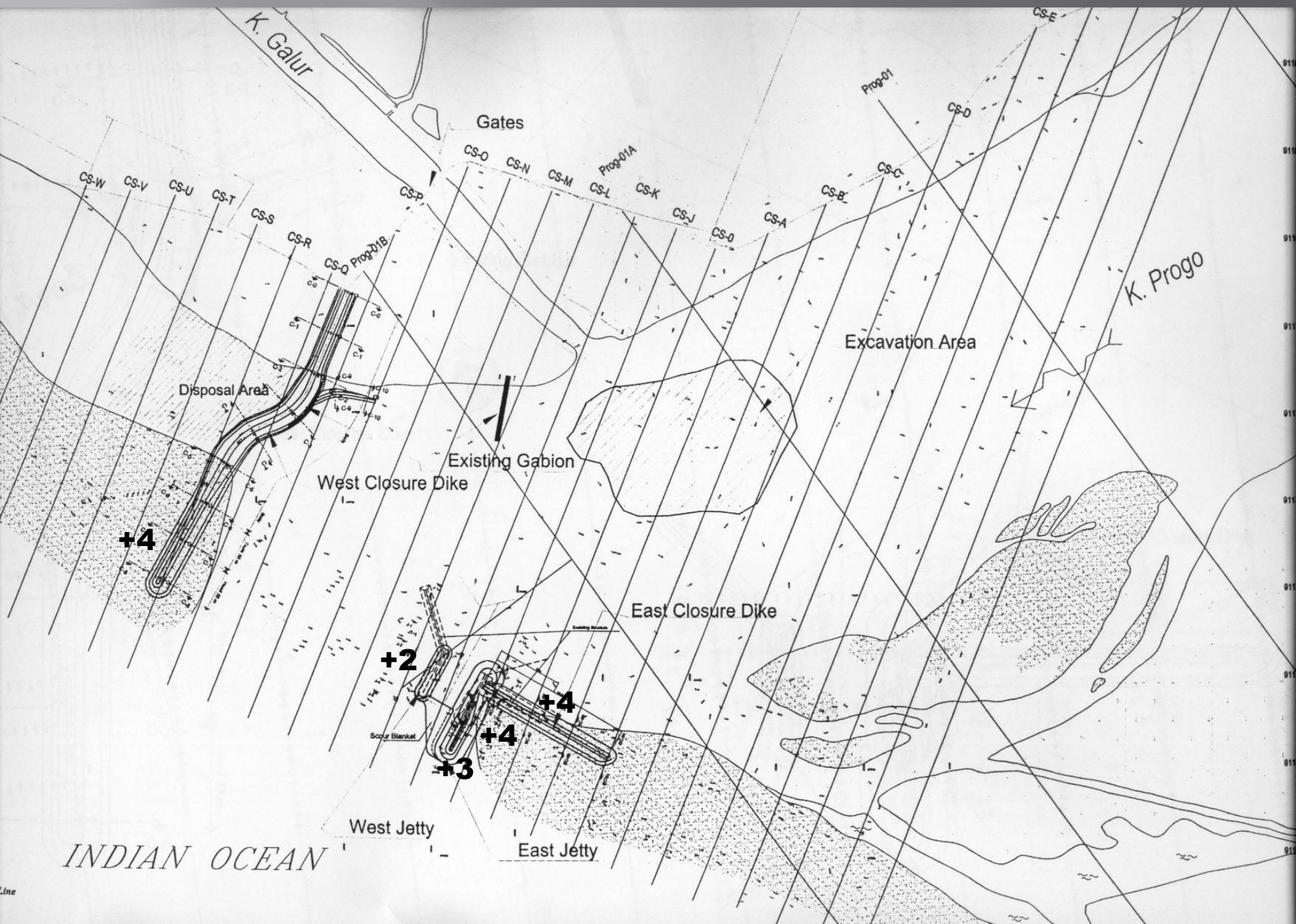


**Foto Udara 7 April 2004**



Photo Udara Muara Progo, 07 April 2004

# Konstruksi dilaksanakan 2005



J-3

0.50

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-1.00

-2.006

Scour Blanket

West Jetty

East Jetty

91.17500

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+6.00

+7.00

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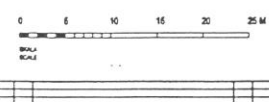
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 MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE DIRECTORATE GENERAL OF WATER RESOURCES SOUTH JAVA FLOOD CONTROL DIVISION PROJECT		SCALE Date: Oct. 2
BICEAM and Associates OPANPROG SUB-PROJECT - PROGO RIVER BASIN PLAN OF EAST AND WEST JETTY		
DRAWING BY:	DATE:	NUMBER:
CHECKED BY:	DATE:	NUMBER:
APPROVED BY:	DATE:	NUMBER:

EC-01

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J-2

J-3

J-4

J-5

EC-02

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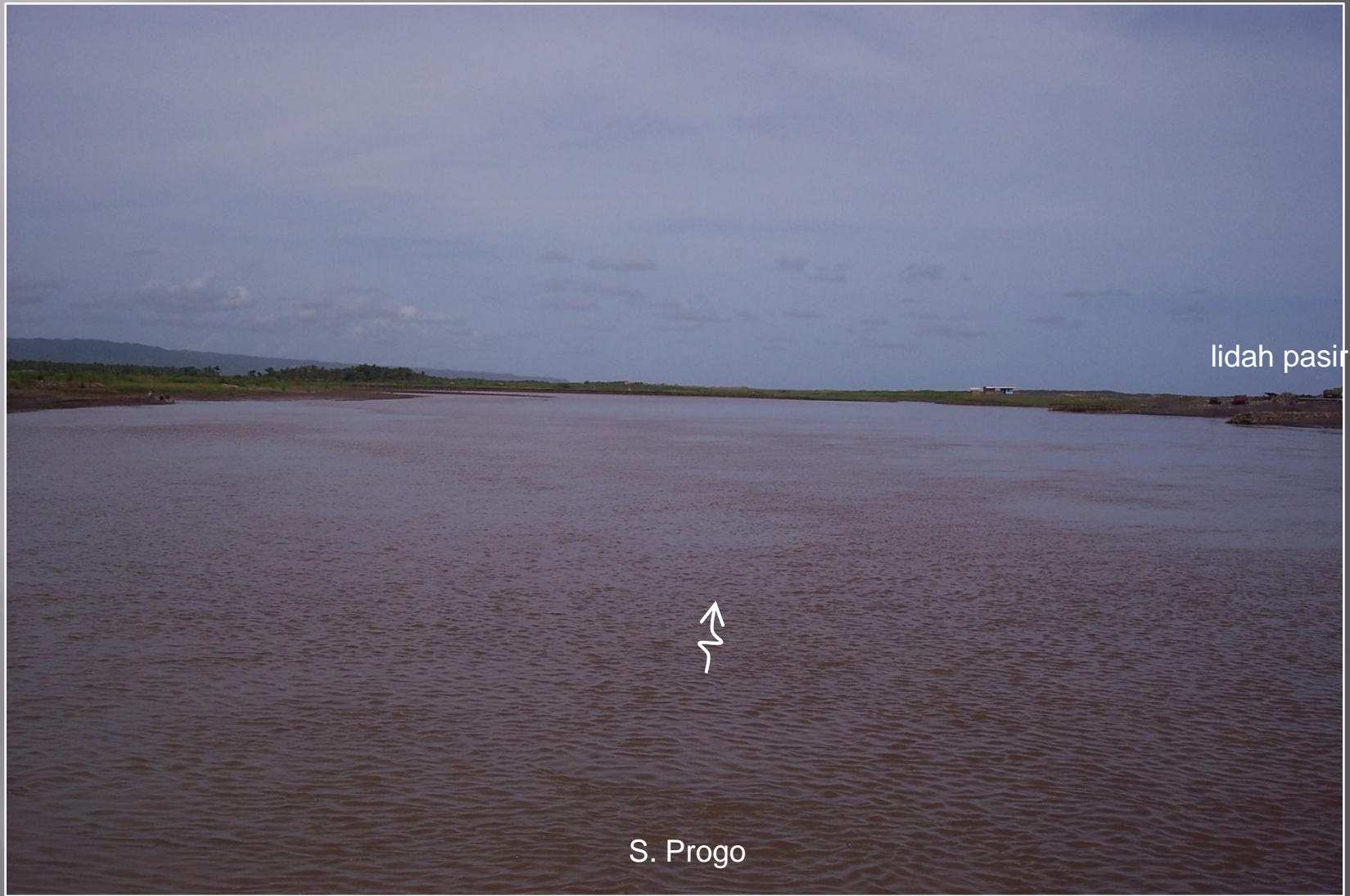
-86.00

-86.50

# MUARA K. PROGO

Maret 2005





lidah pasir

S. Progo









# MUARA K. PROGO

Maret 2006



rubble mount jetty di sisi kanan  
bobot batu lapis lindung 1-2 ton



rubble mount jetty di sisi kanan  
bobot batu lapis lindung 1-2 ton



bagian ekor jetty di sisi kiri

23.03.2006

23.03.2006 11:54

# Jetty di sisi kiri





muara K. Progo

laut

23.03.2006 11:54

jetty di sisi kiri

inner jetty (rubble mount):  
tinggal bagian ekor,  
bagian ujung telah hilang.

jetty di sisi kiri





muara  
K. Progo



inner jetty (rubble mount):  
tinggal bagian ekor,  
bagian ujung telah hilang.

muara  
K. Progo



laut

lidah pasir  
di sisi kanan

23.03.2006 11:46

# MUARA K. PROGO

Mei 2006



# Muara menyempit





Maret 2006



Mei 2006



16.05.2006



16.05.2006



Jetty di sisi kanan

Maret 2006



Mei 2006



A photograph of a person standing on a black sand beach, looking out at a large dam or breakwater structure extending into the ocean. The sky is clear blue, and the water is a mix of blue and green. The person is wearing a light-colored hat, a jacket with blue and tan panels, and maroon pants. The text "Terima kasih" is overlaid in the center of the image.

Terima kasih

16.05.2006