

HALAMANPERNYATAAN

Yang bertanda tangan dibawah ini:

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Fakultas : Teknik

Universitas : Universitas Muhammadiyah Yogyakarta

Menyatakan dengan sesungguhnya bahwa naskah Tugas Akhir “Studi Potensi Energi Gelombang Laut Sebagai Pembangkit Tenaga Listrik Di Wilayah perairan Sejatan Kabupaten Kebumen” ini merupakan hasil karya tulis saya sendiri dan tidak terdapat karya yang pernah diajukan untuk memperoleh gelar sarjana di Perguruan Tinggi dan sepanjang pengetahuan penulis juga tidak terdapat karya atau pendapat yang pernah ditulis atau dipublikasikan oleh orang lain, kecuali yang secara tertulis disebutkan sumbernya dalam naskah dan daftar pustaka dengan mengikuti tata cara dan etika Penulisan karya tulis.

Yogyakarta, 15 Mei 2017

Penulis

Angga Febrika Melany Putra

MOTTO

“Hanya orang yang tidak mempunyai suatu kebanggaanlah yang akan berbohong”

(Code Geass)

“Air mata buaya dapat menipu dan menyakiti hati orang lain, tetapi senyuman palsu hanya akan menyakiti hati kita sendiri”

(Kakumeiki Valvrav)

“Kebahagiaan bukanlah sesuatu yang bias kau bagi menjadi dua”

“Hai orang-orang yang beriman, jadikanlah sabar dan shalatmu sebagai penolongmu, sesungguhnya Allah beserta orang-orang yang sabar ” (Al-Baqarah: 153)

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DAFTAR SINGKATAN

OTEC = *Ocean Thermal Energy Conversion*

OWC = *Oscillating Water Column*

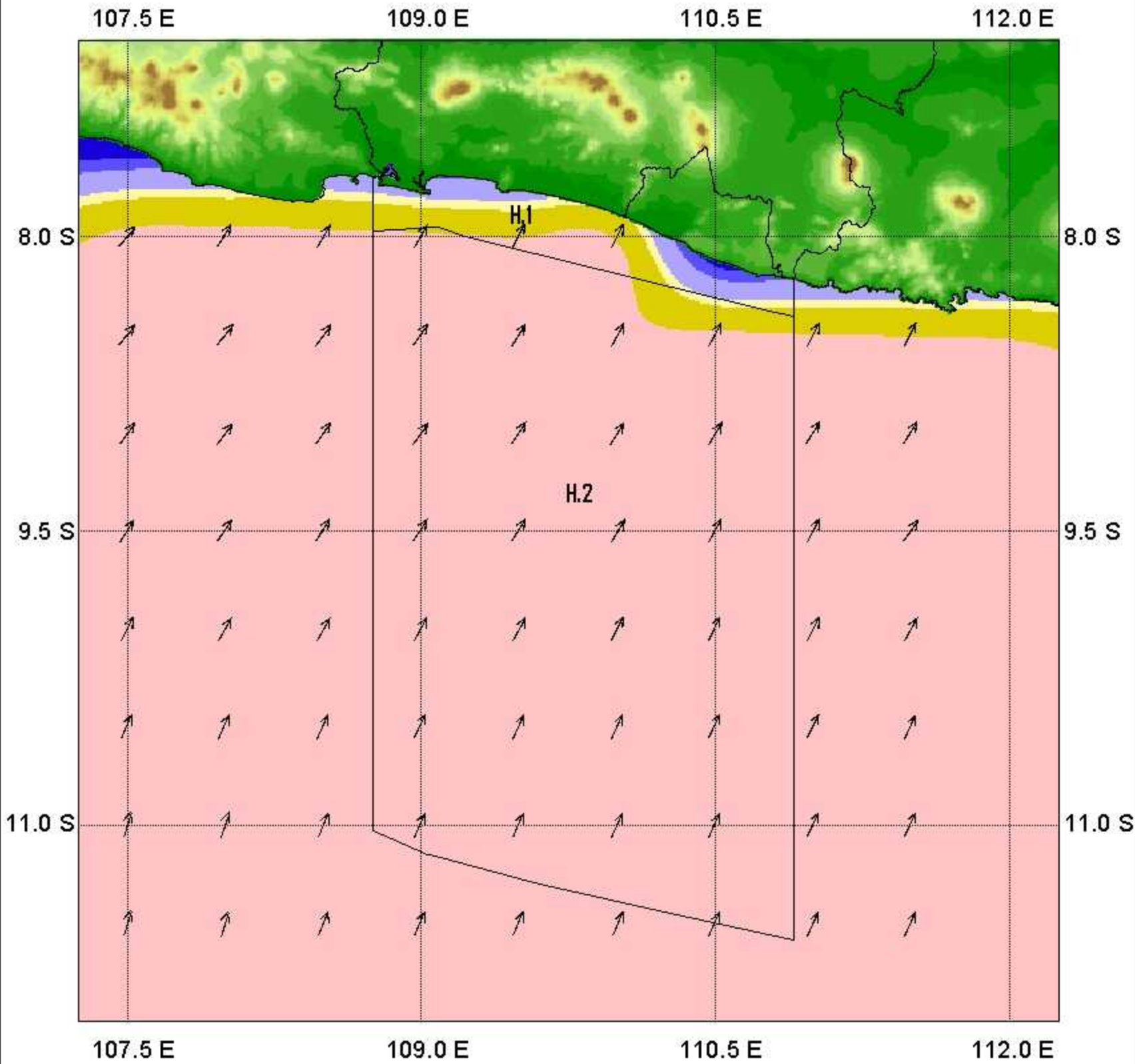
TAPCHAN = *Tappered Channel Device*



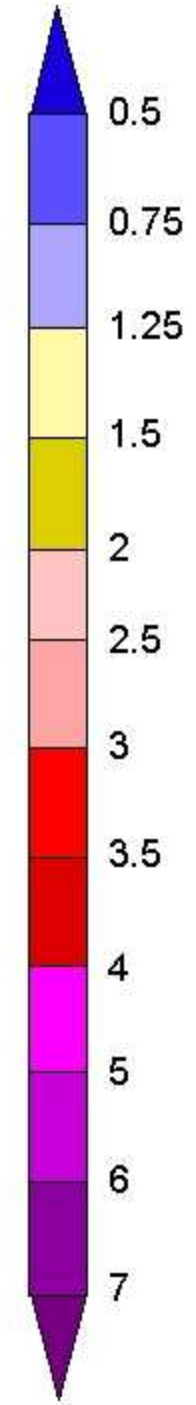
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JAN 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

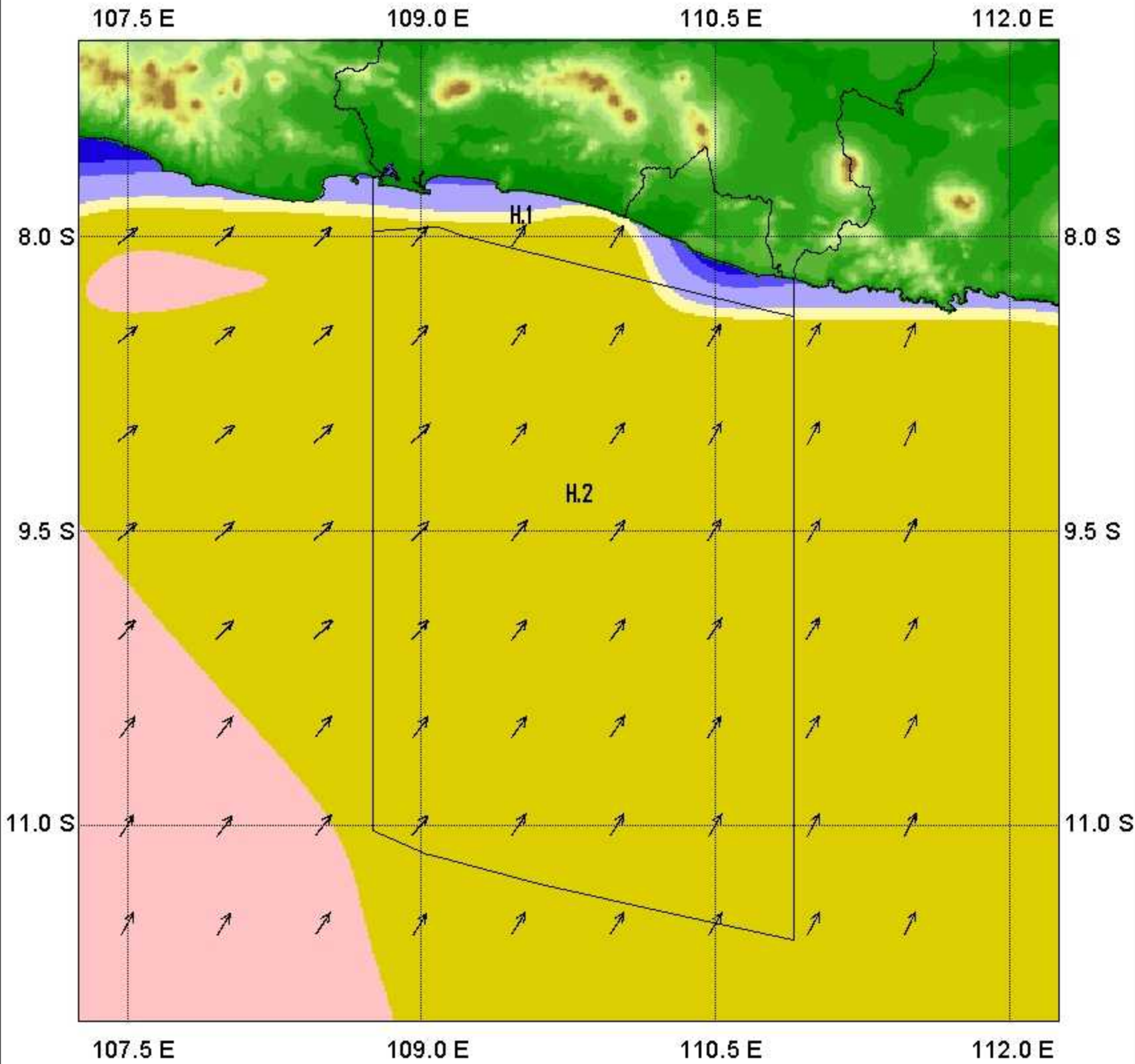
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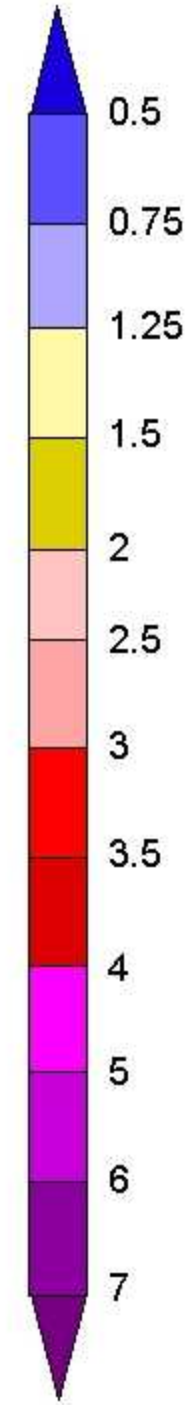
AVE. TOTAL WAVE

MONTHLY ANALYSIS

FEB 2015



Maximum Height (m)



↑ : Primary Wave Direction

[H.1] Perairan selatan Jawa Tengah

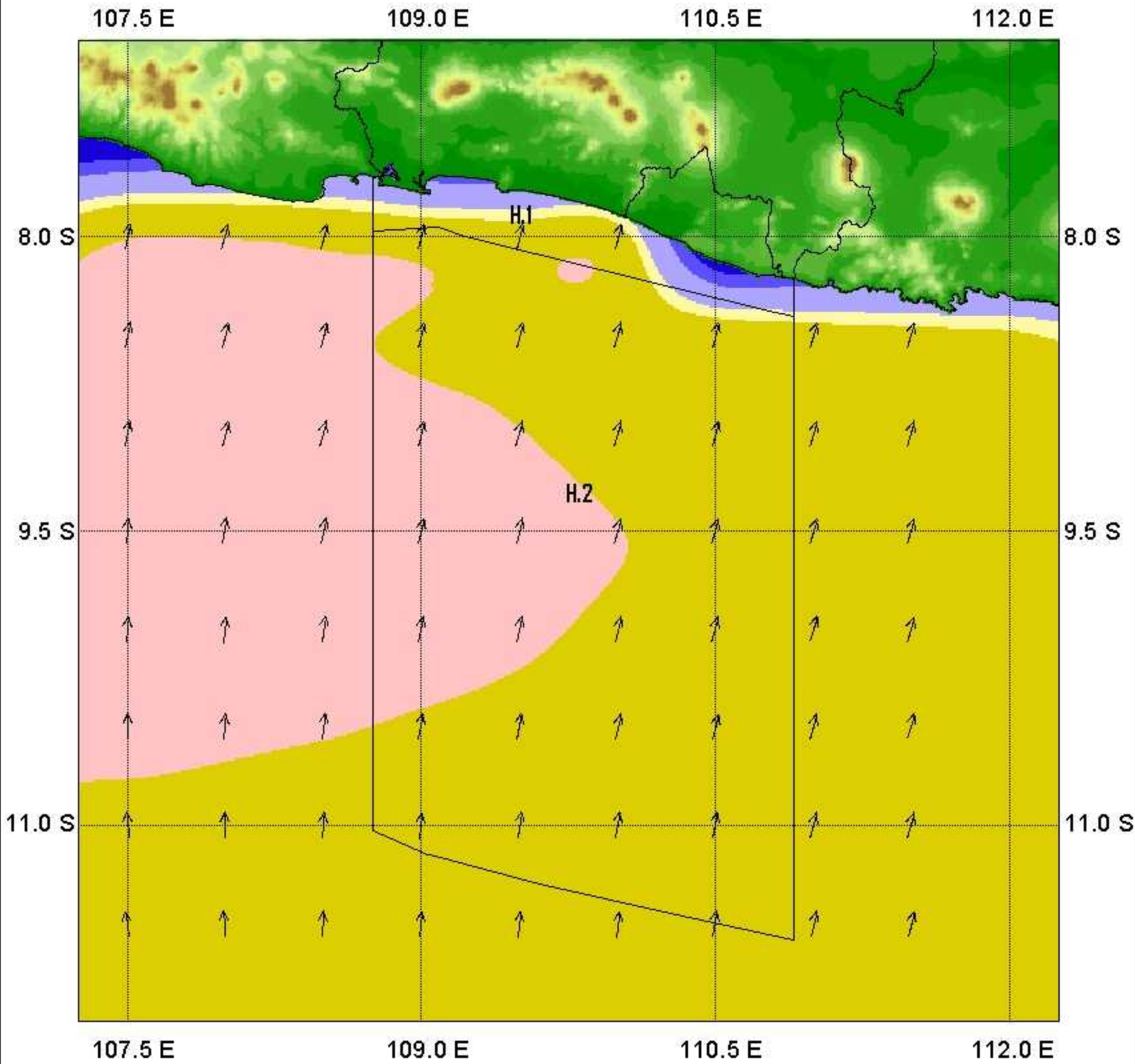
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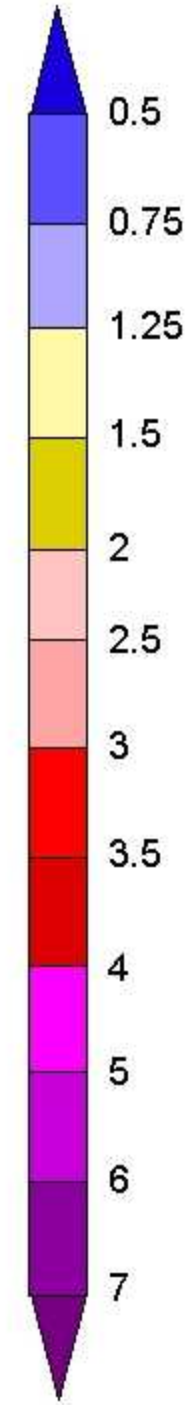
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAR 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

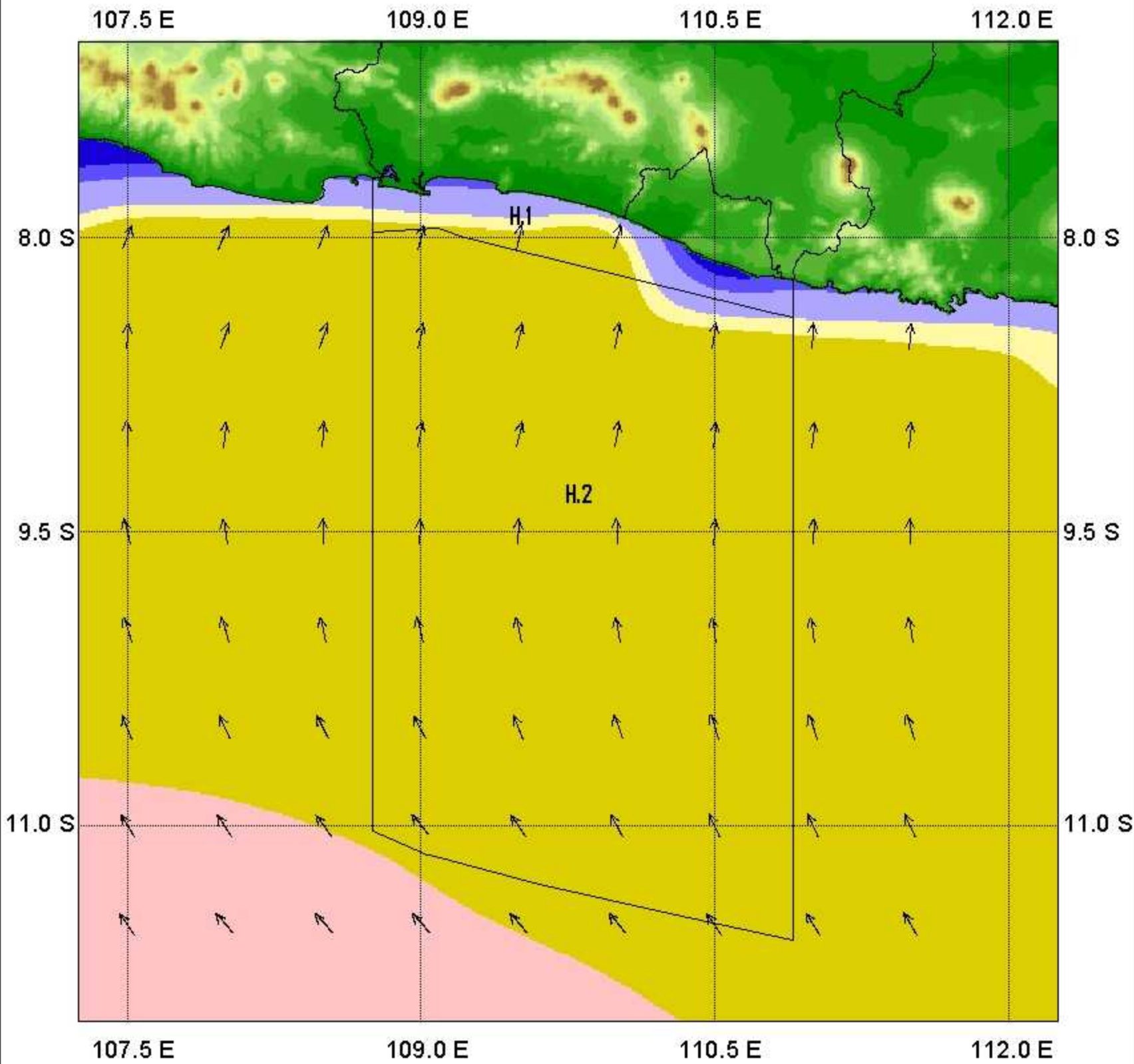
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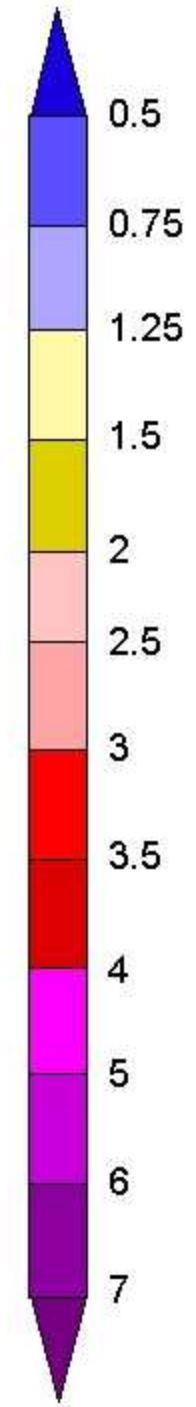
AVE. TOTAL WAVE

MONTHLY ANALYSIS

APR 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

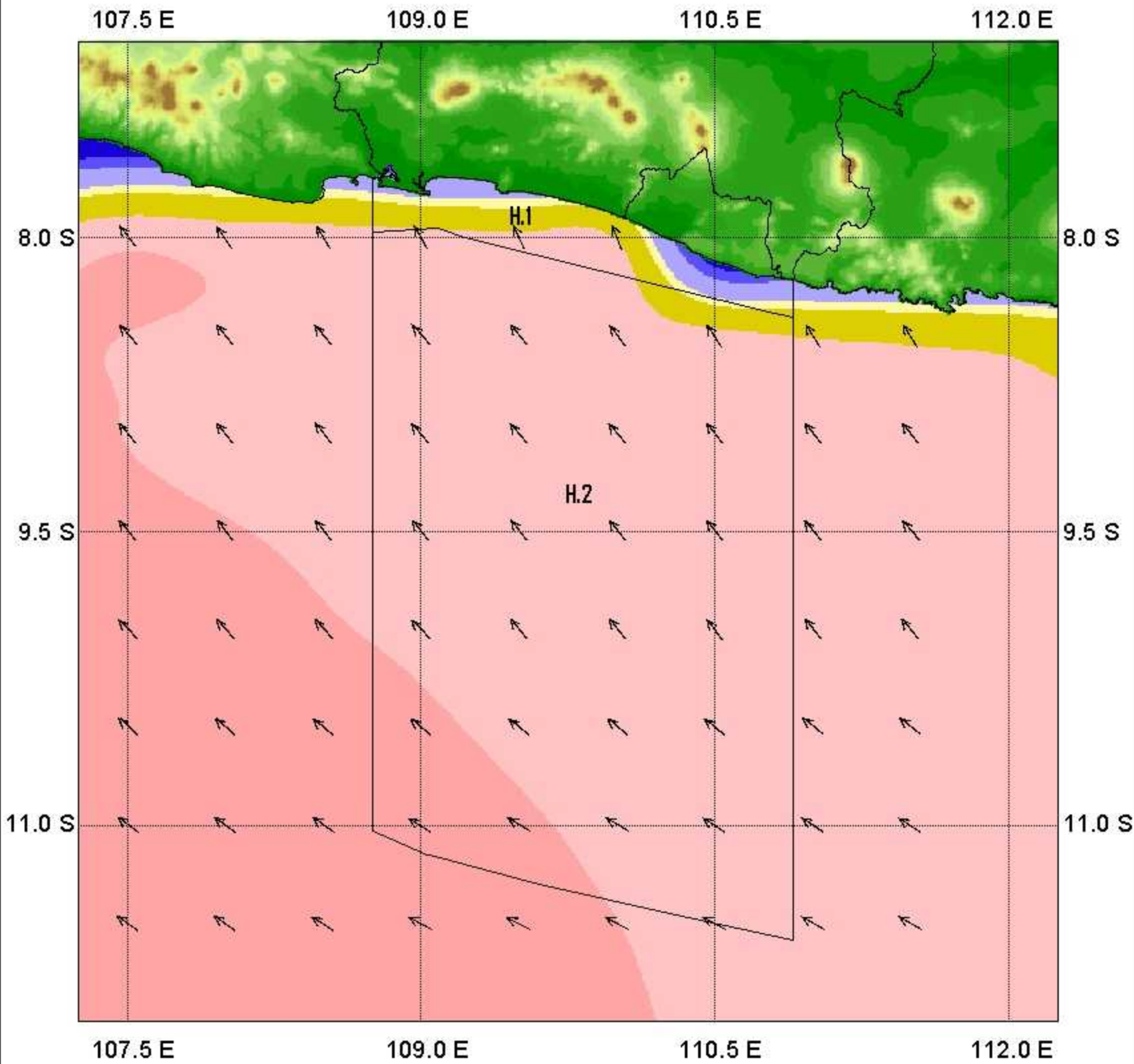
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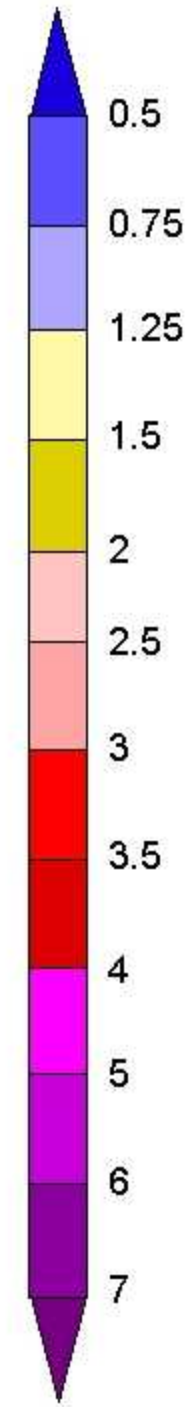
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAY 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

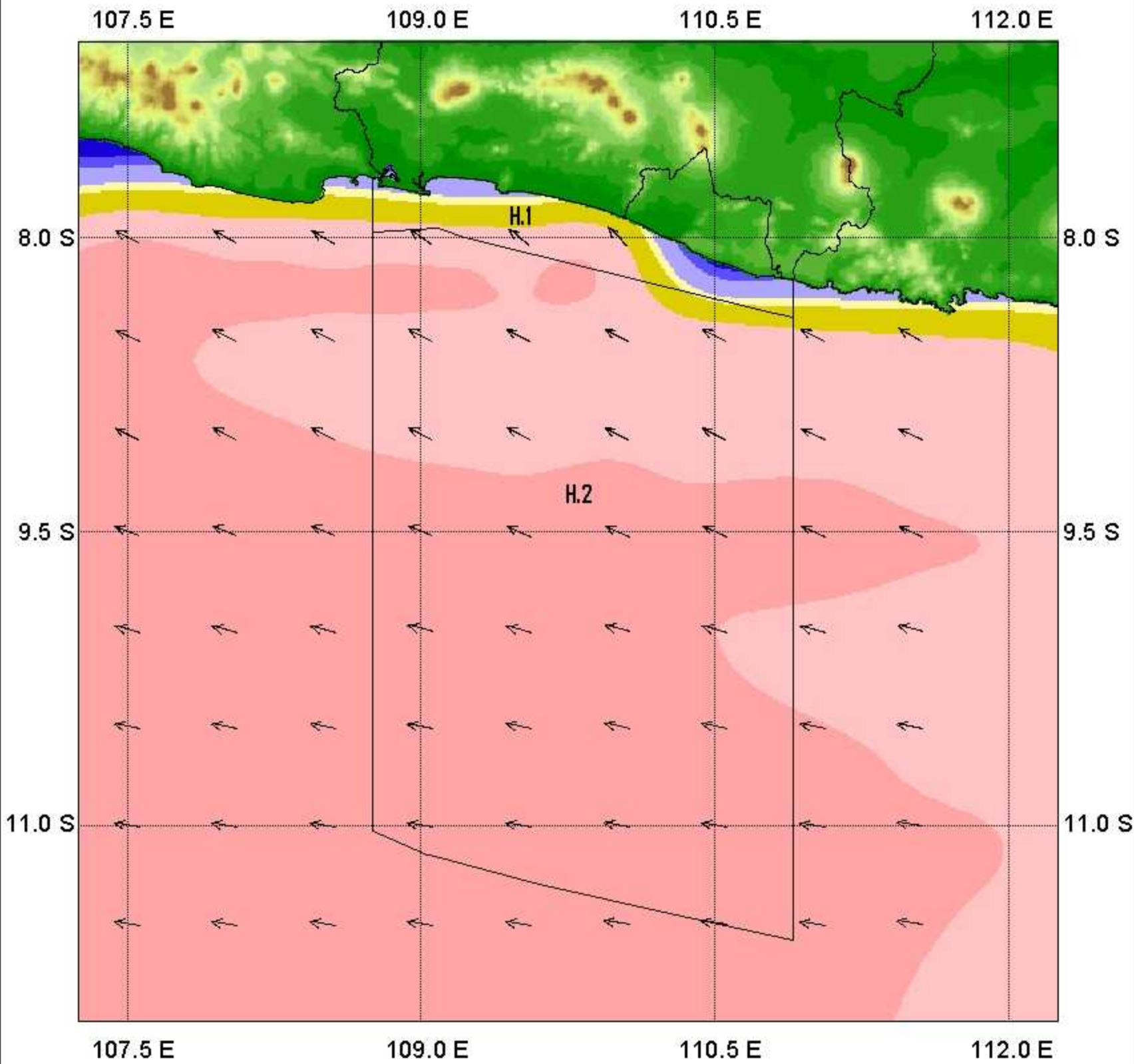
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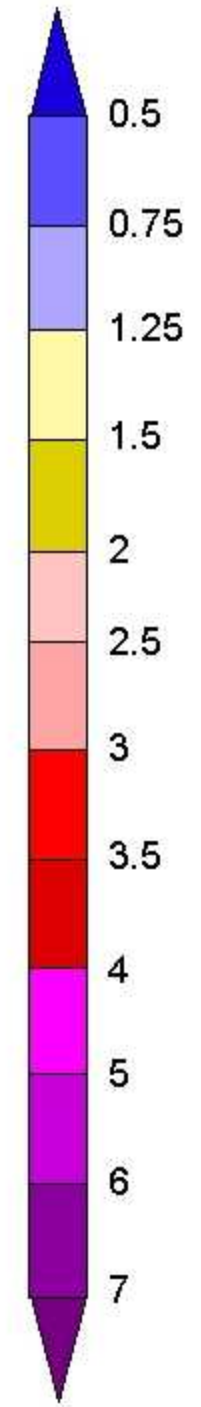
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUN 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

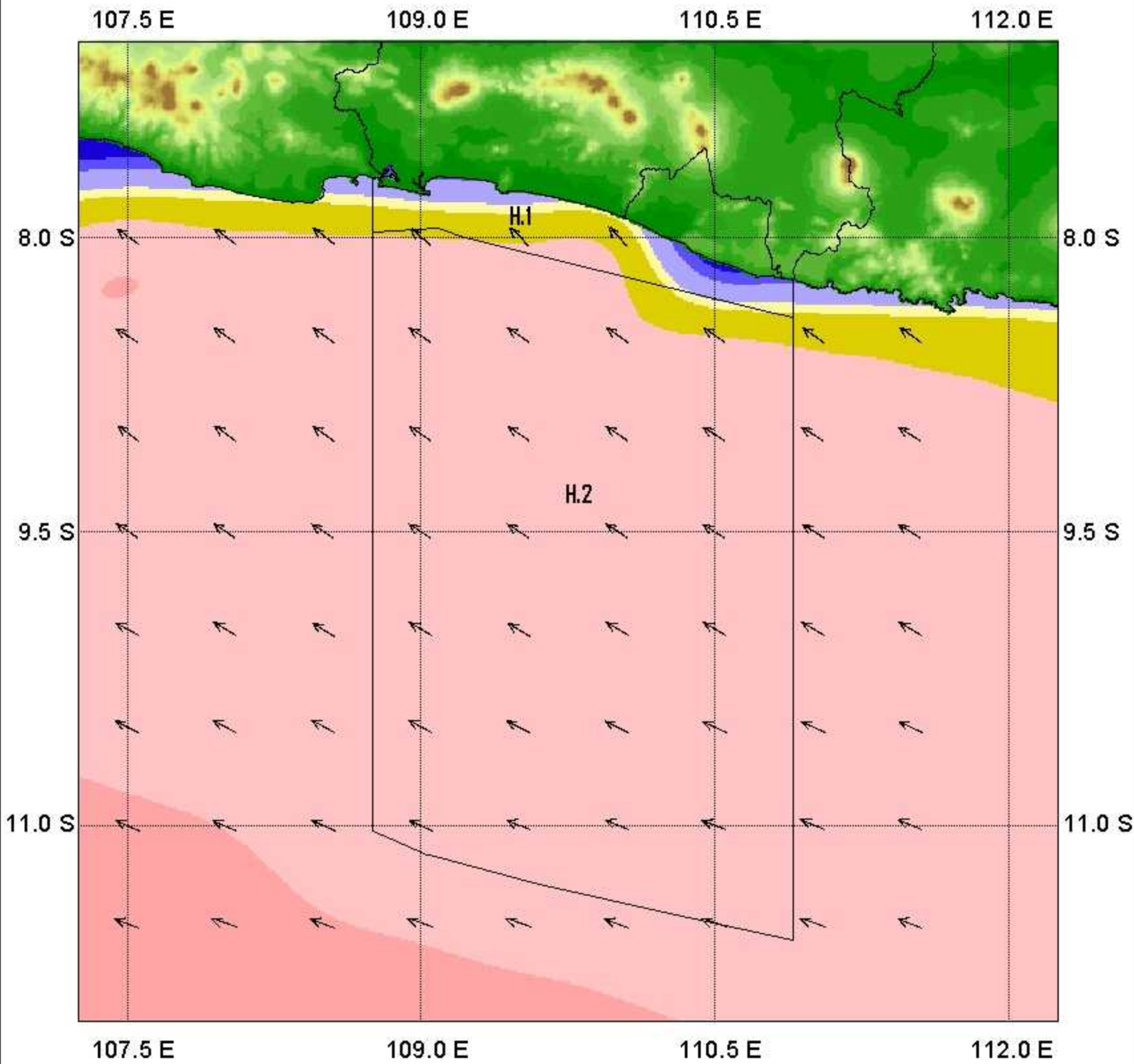
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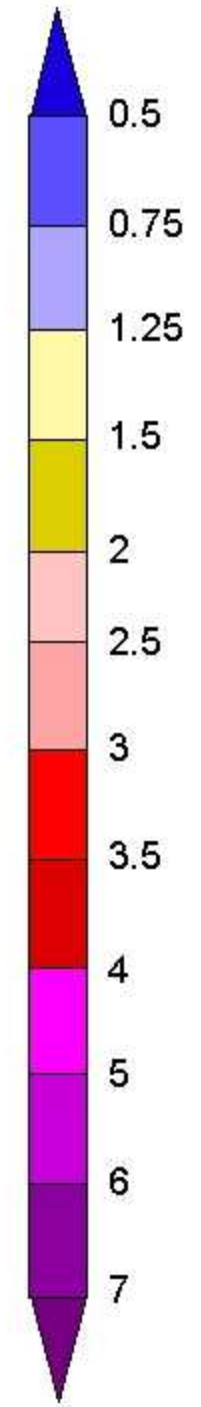
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUL 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

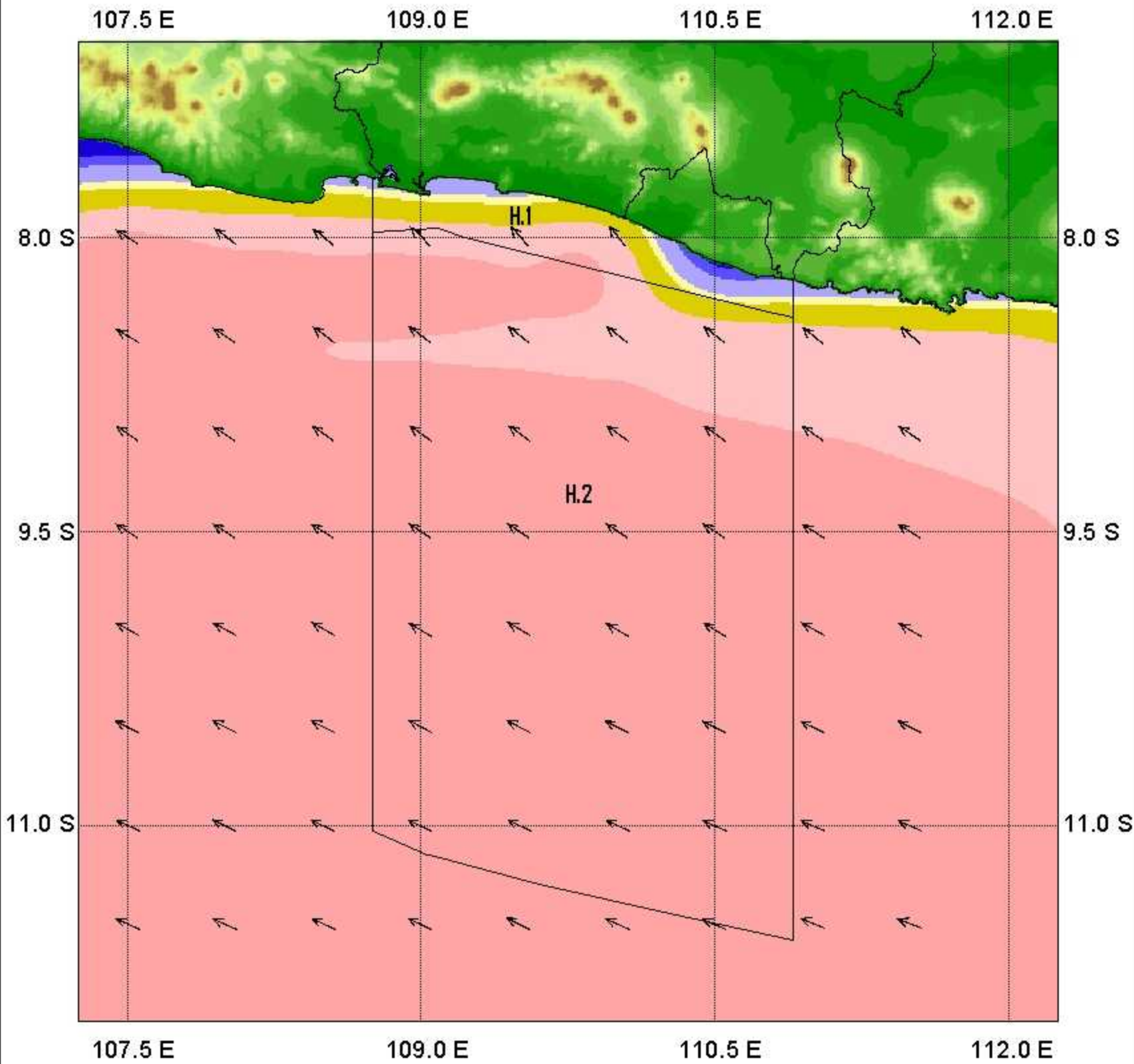
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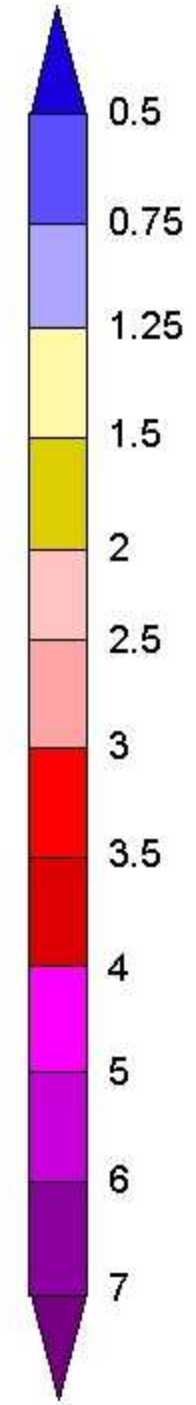
AVE. TOTAL WAVE

MONTHLY ANALYSIS

AUG 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

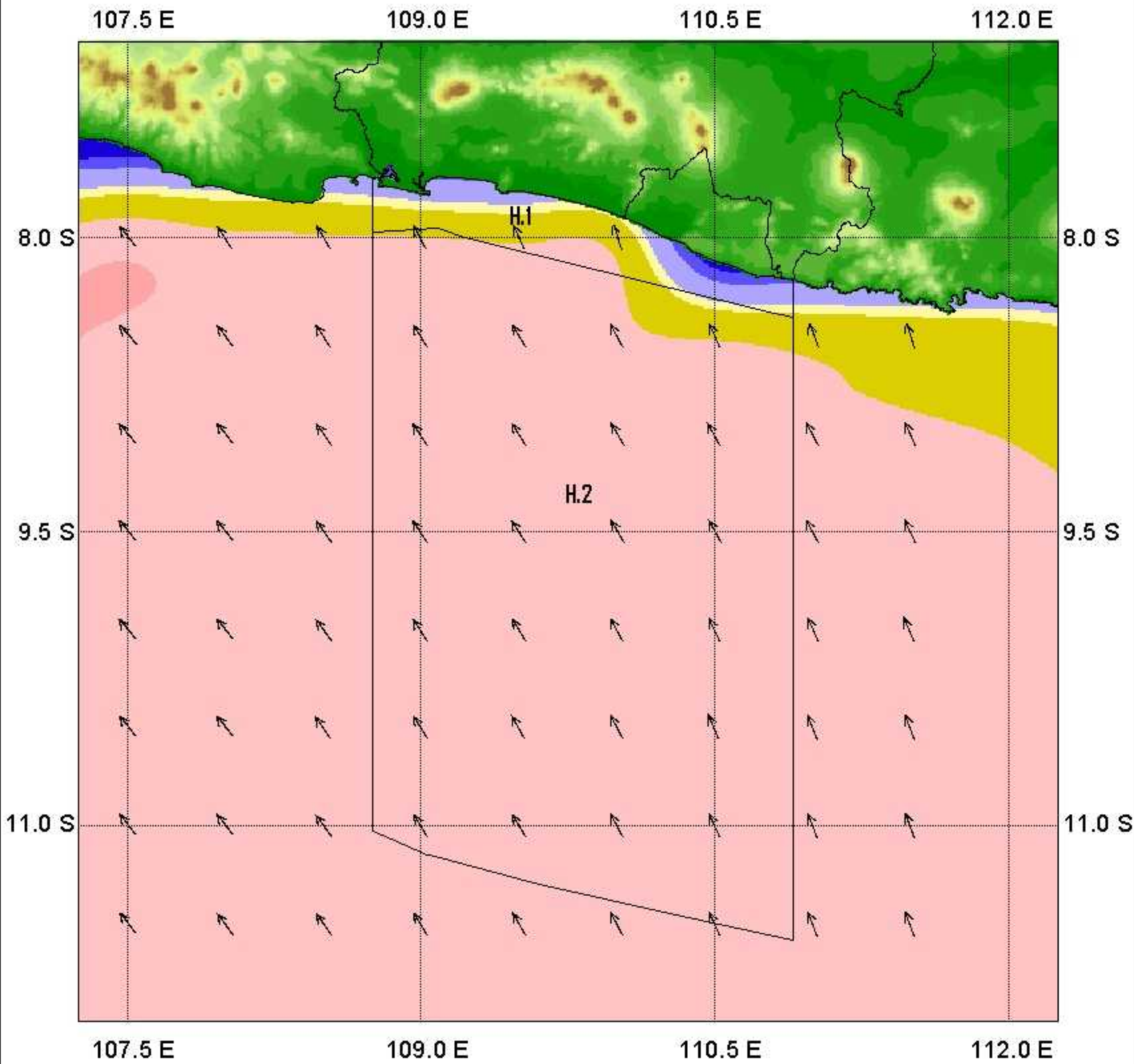
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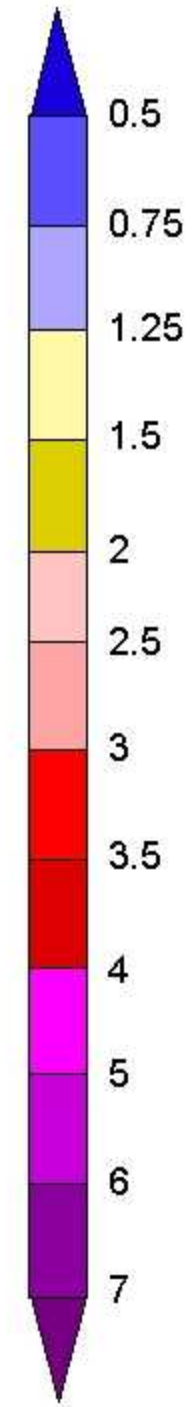
AVE. TOTAL WAVE

MONTHLY ANALYSIS

SEP 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

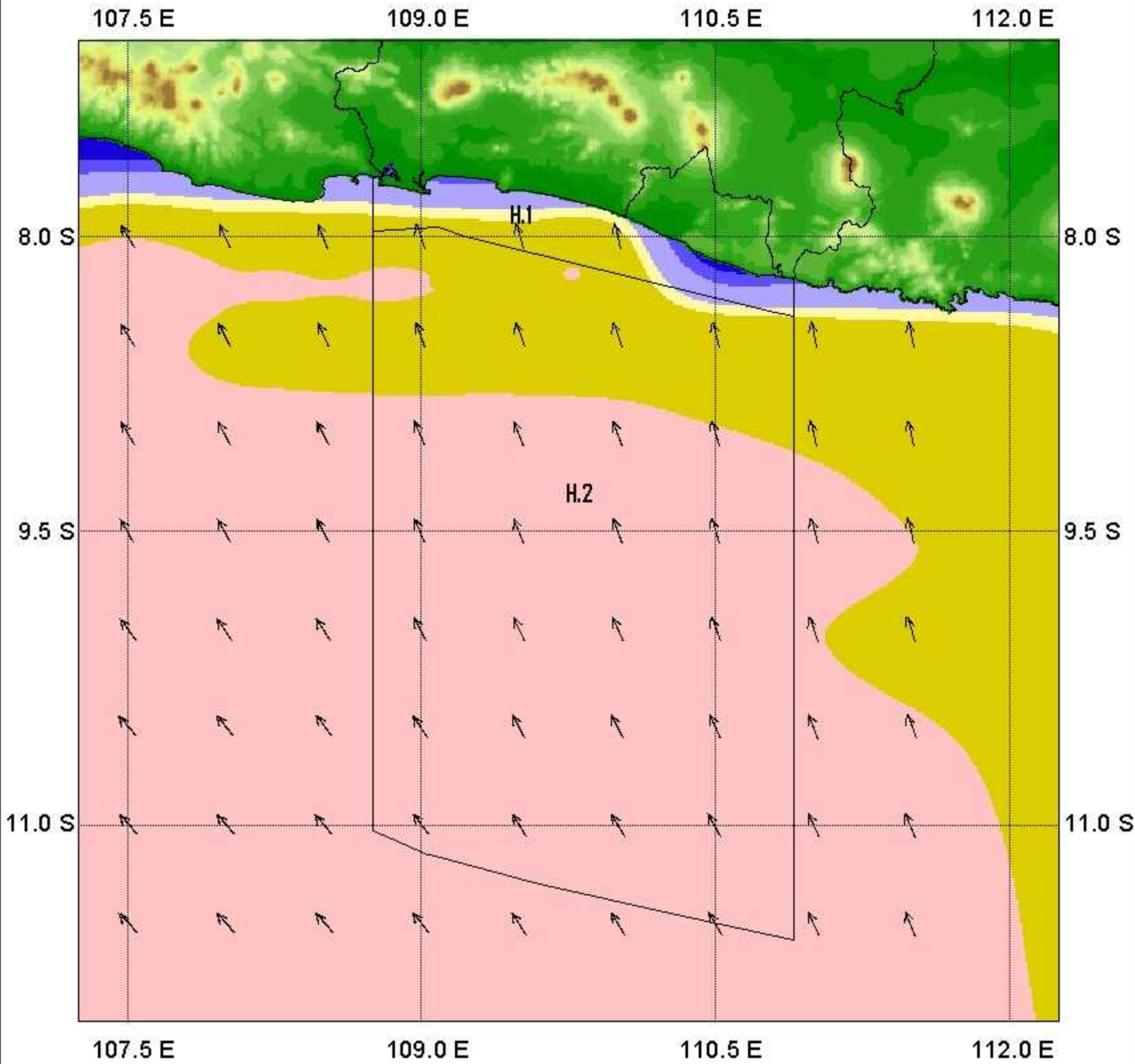
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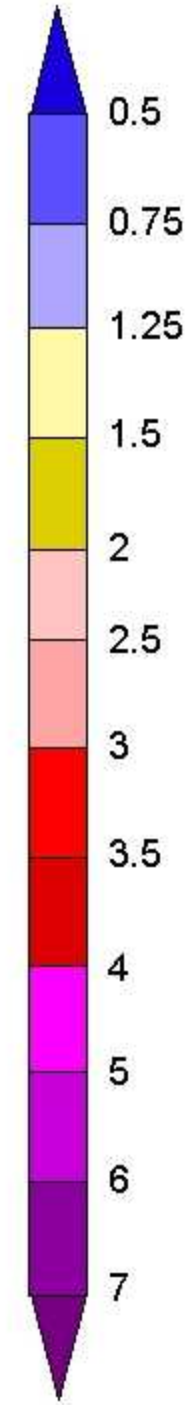
AVE. TOTAL WAVE

MONTHLY ANALYSIS

OCT 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

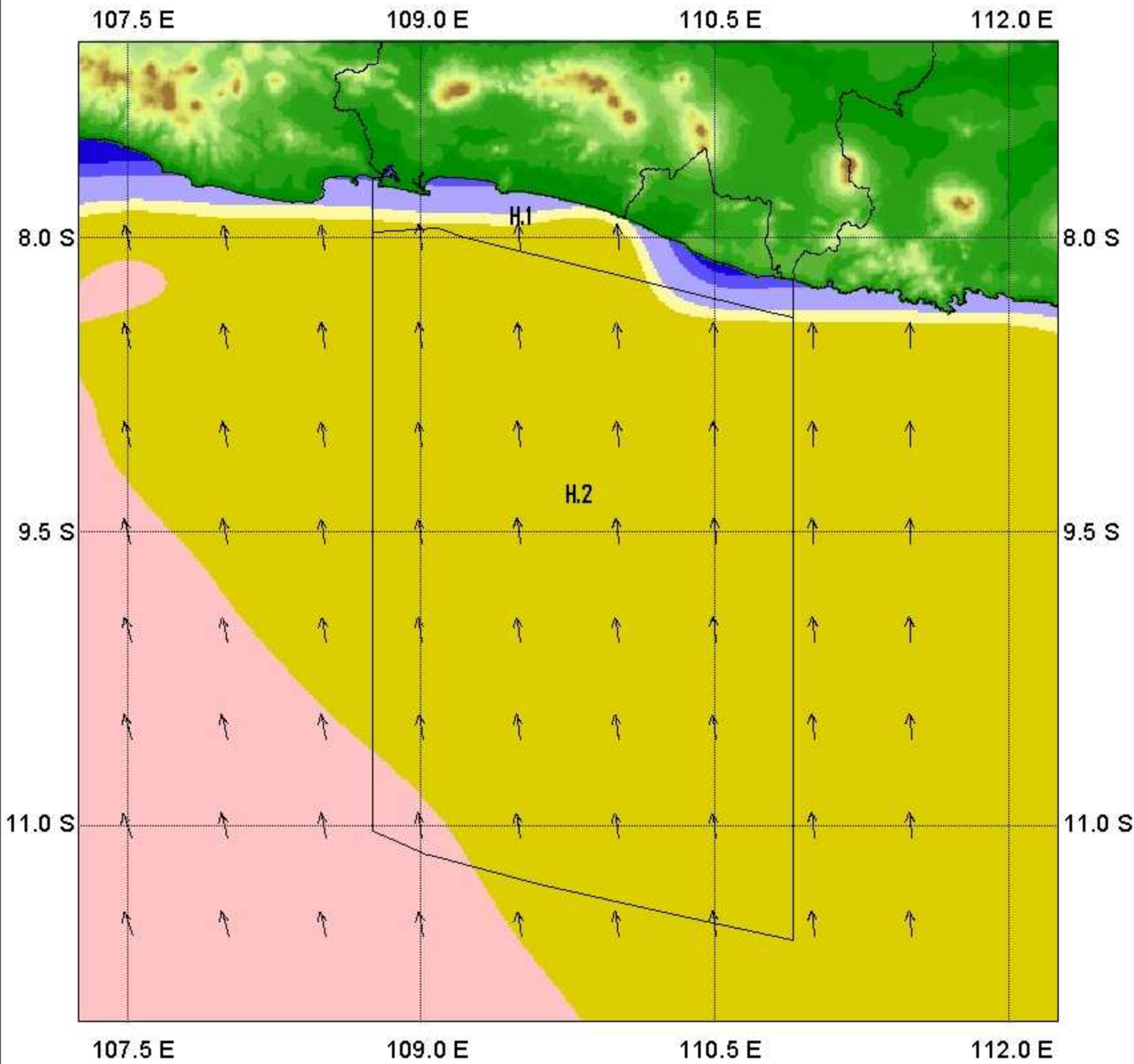
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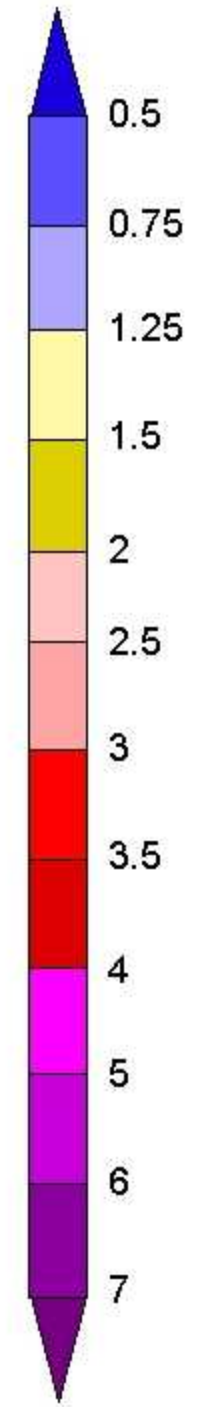
AVE. TOTAL WAVE

MONTHLY ANALYSIS

NOV 2015



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

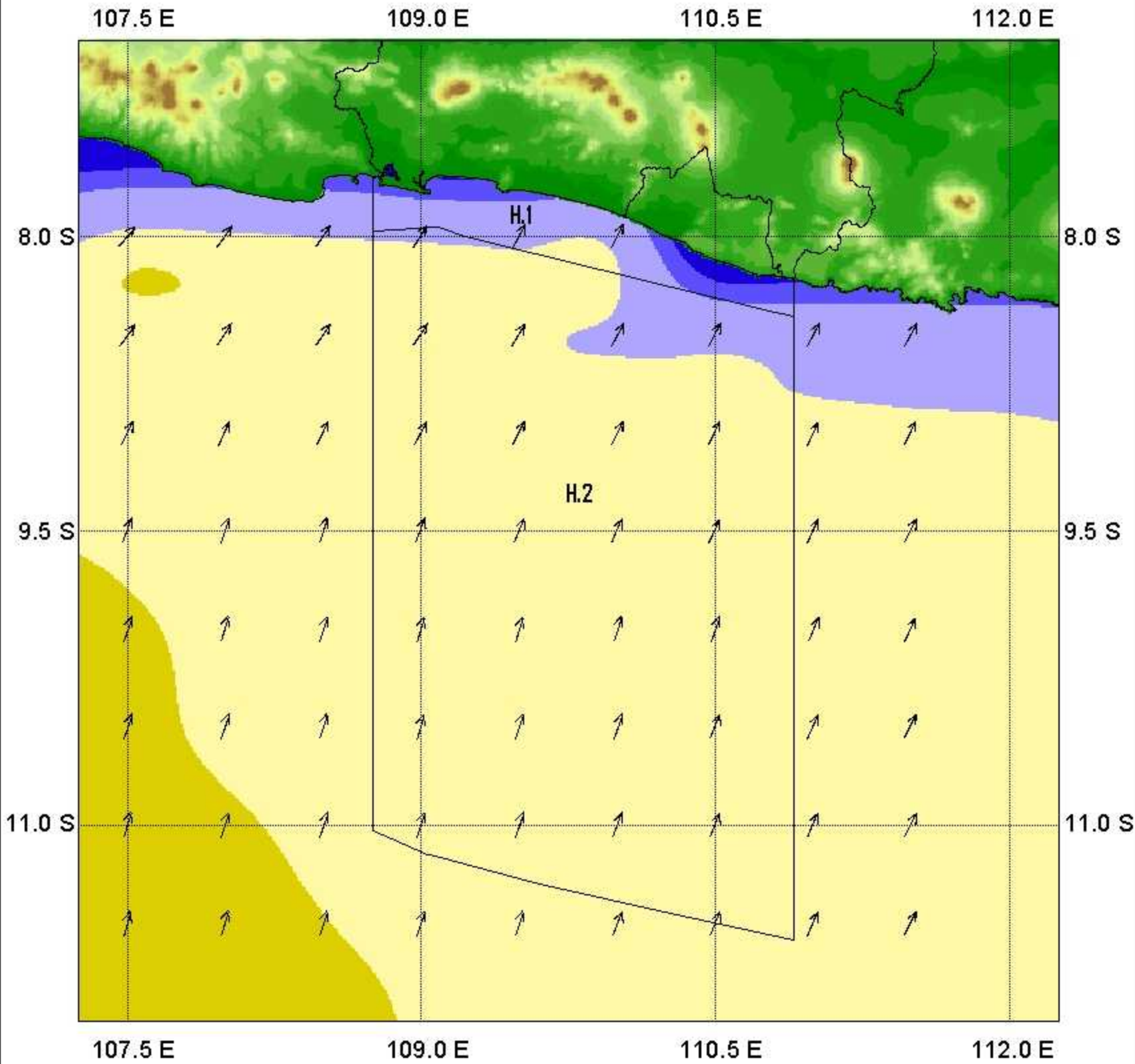
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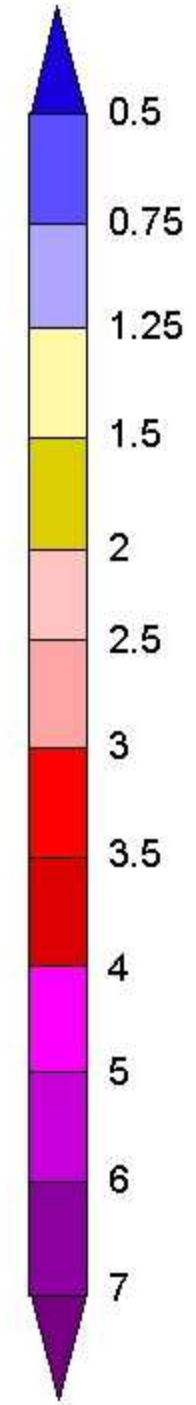
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JAN 2016



Maximum Height (m)



↑ : Primary Wave Direction

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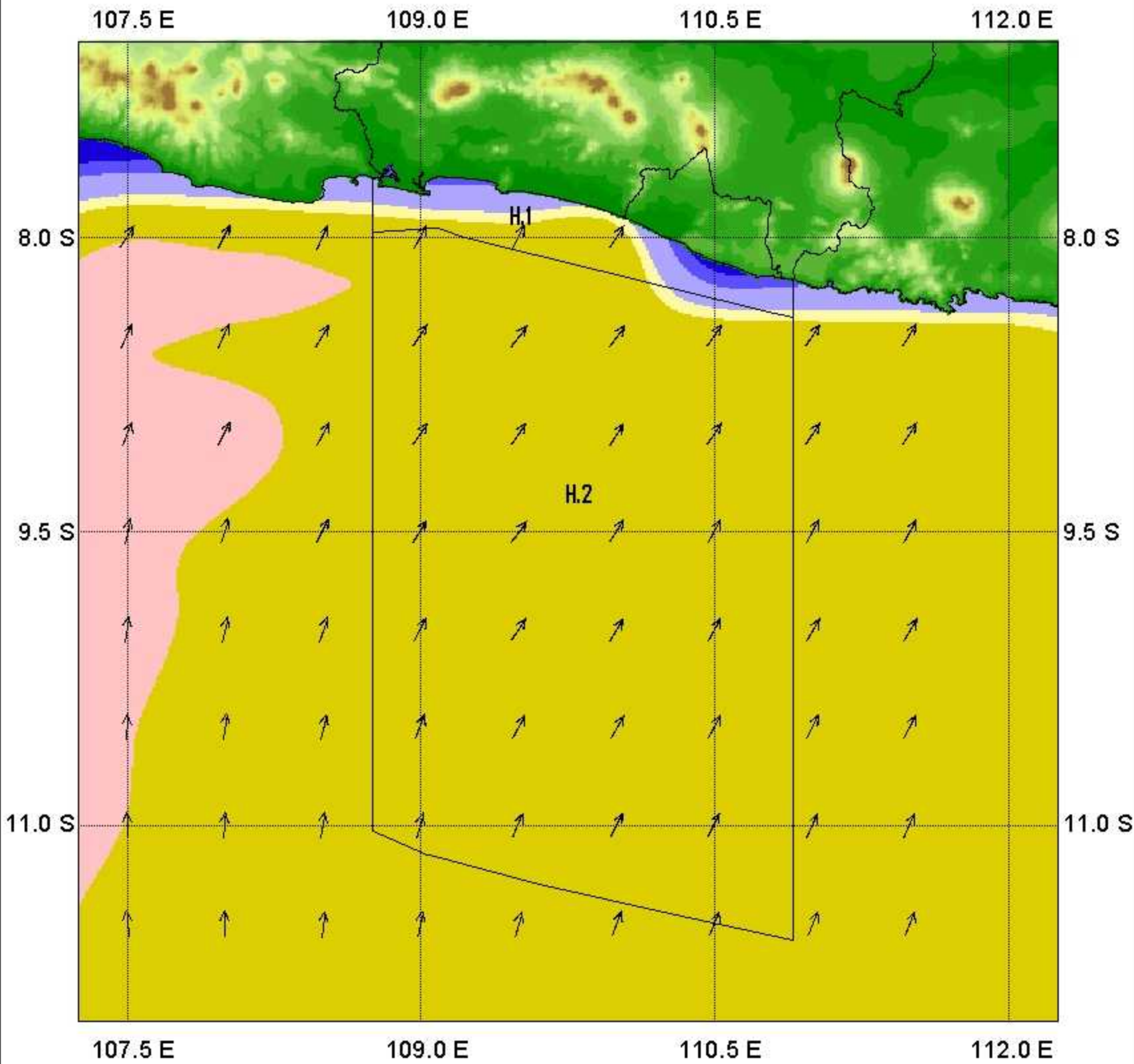
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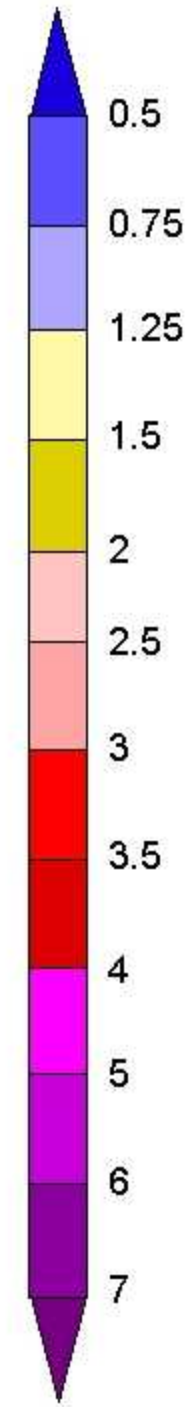
AVE. TOTAL WAVE

MONTHLY ANALYSIS

FEB 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

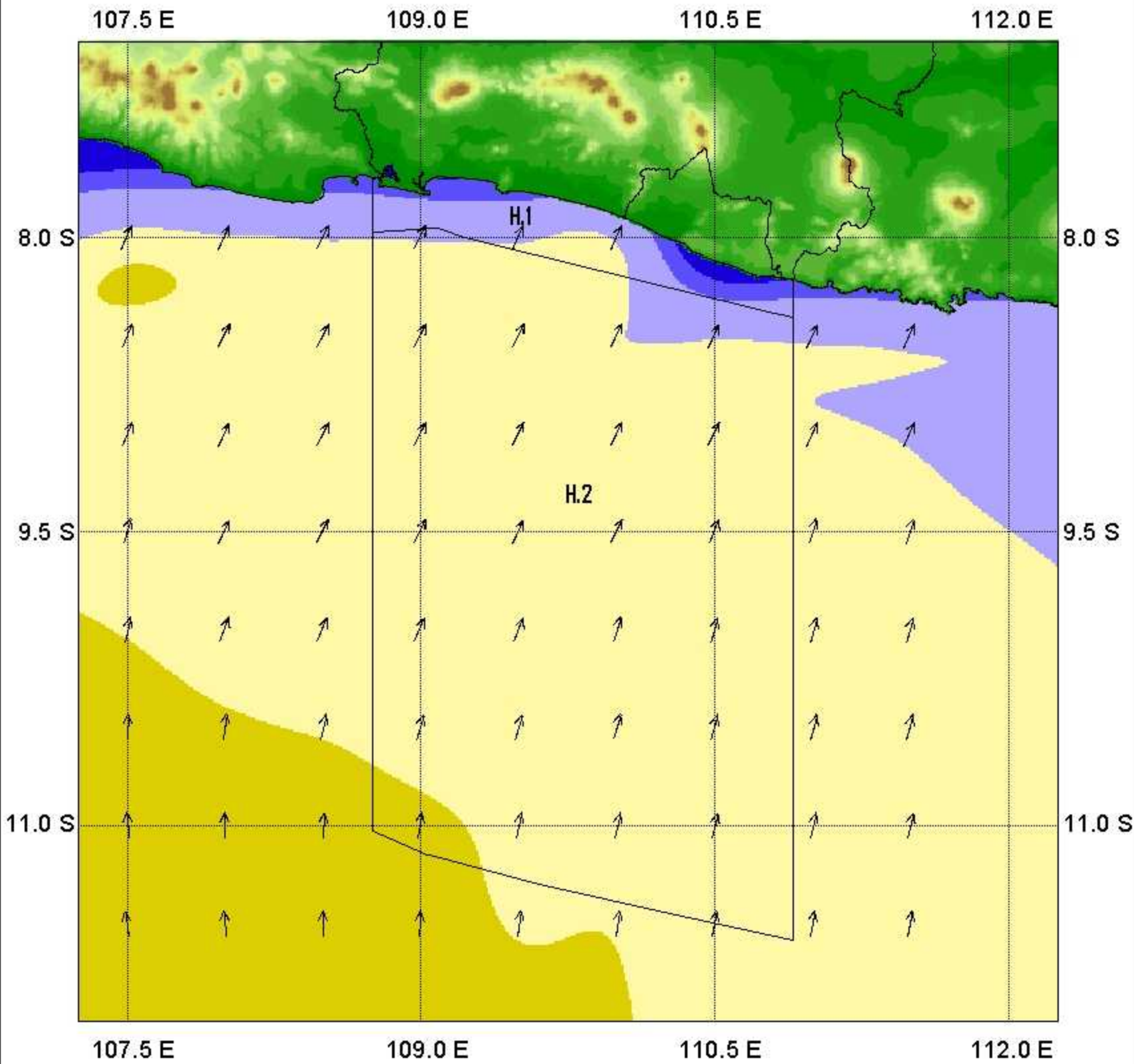
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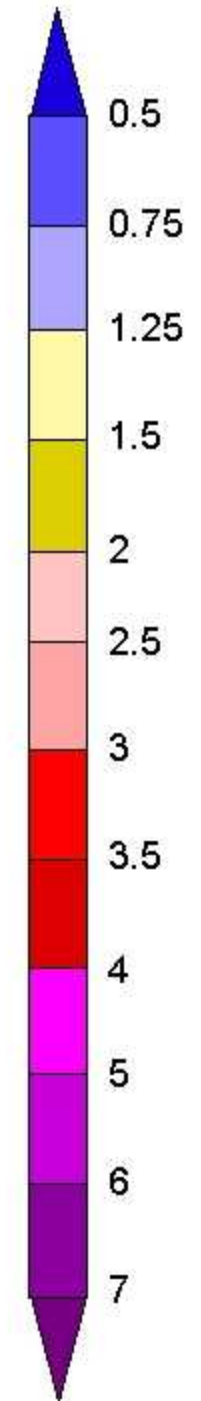
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAR 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

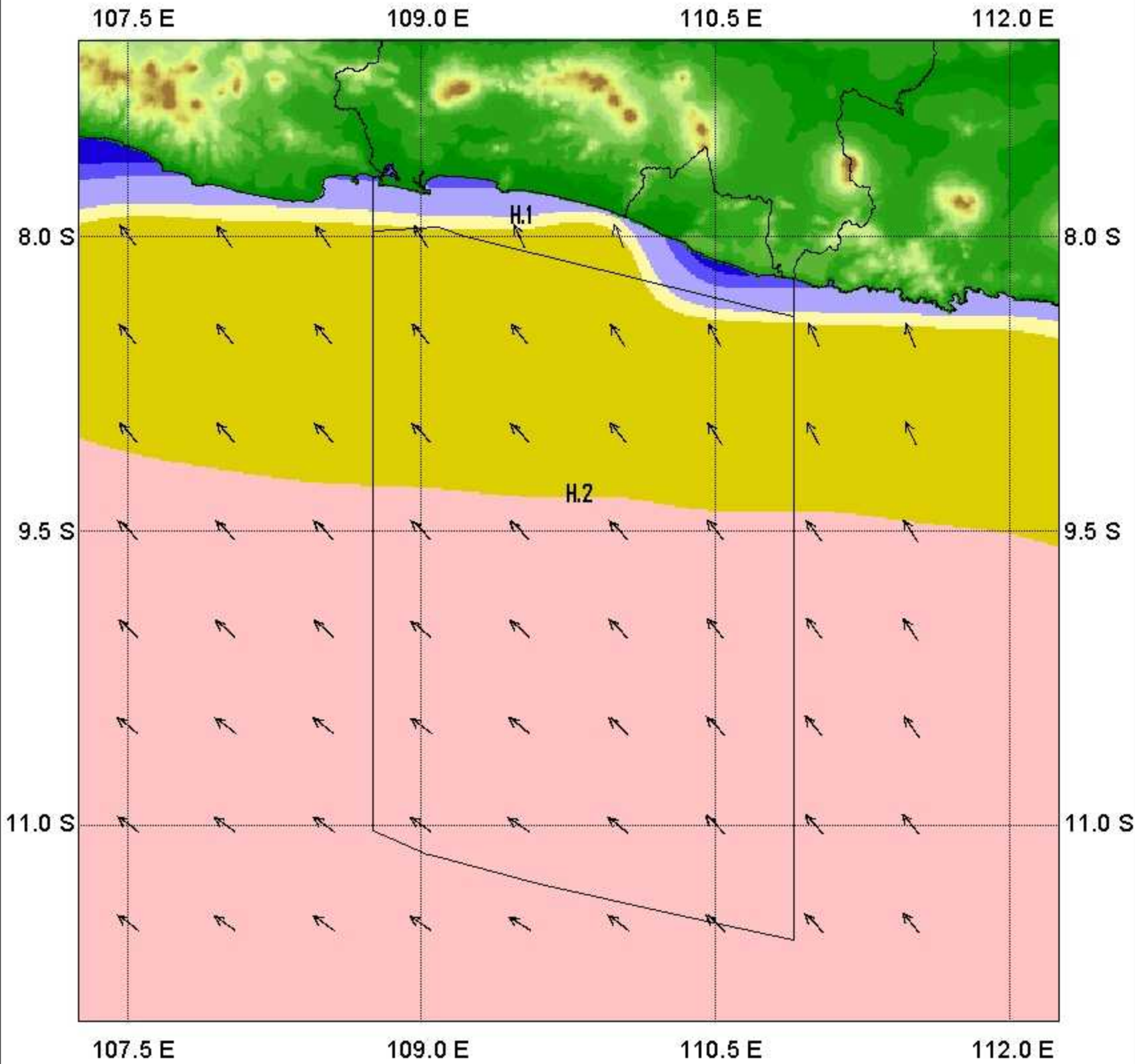
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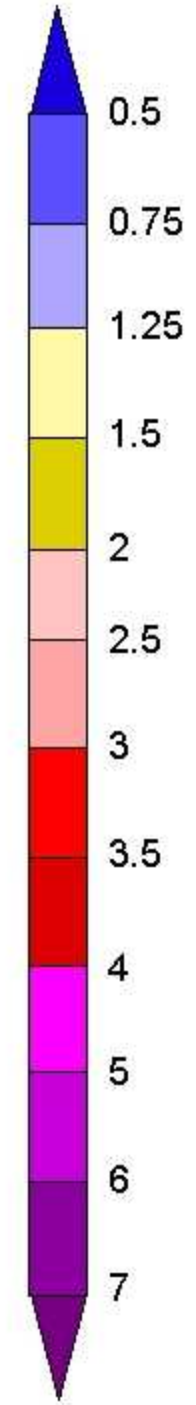
AVE. TOTAL WAVE

MONTHLY ANALYSIS

APR 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

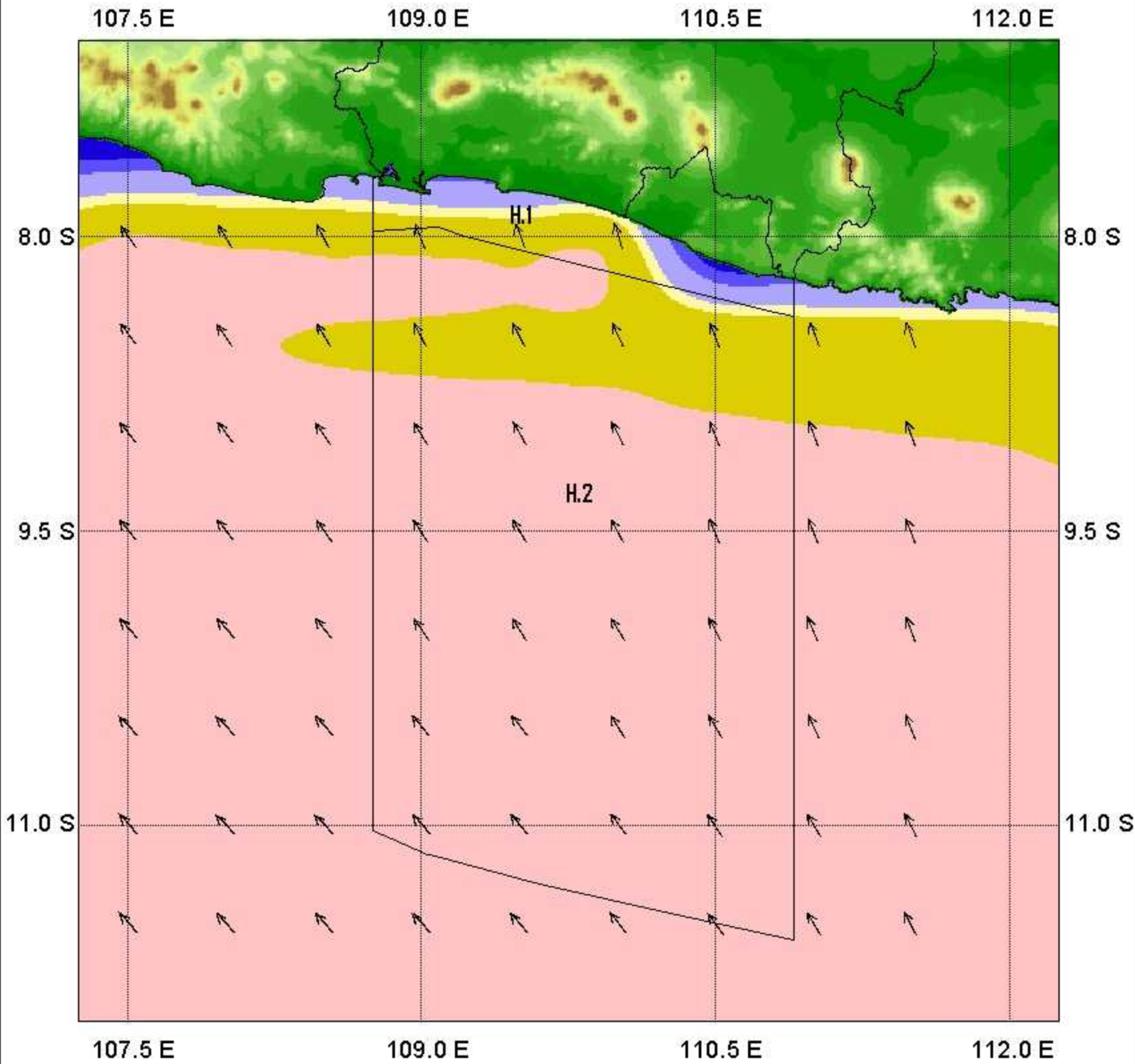
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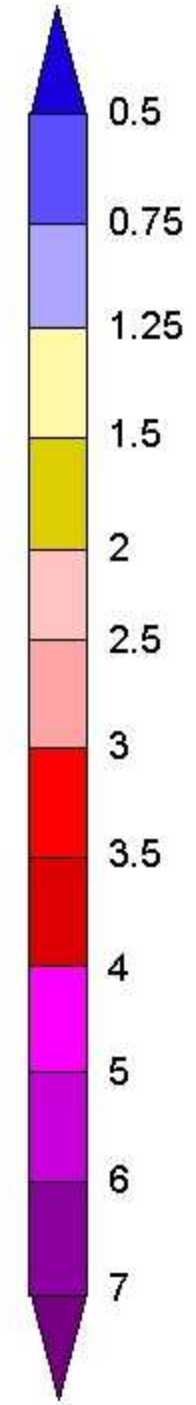
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAY 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

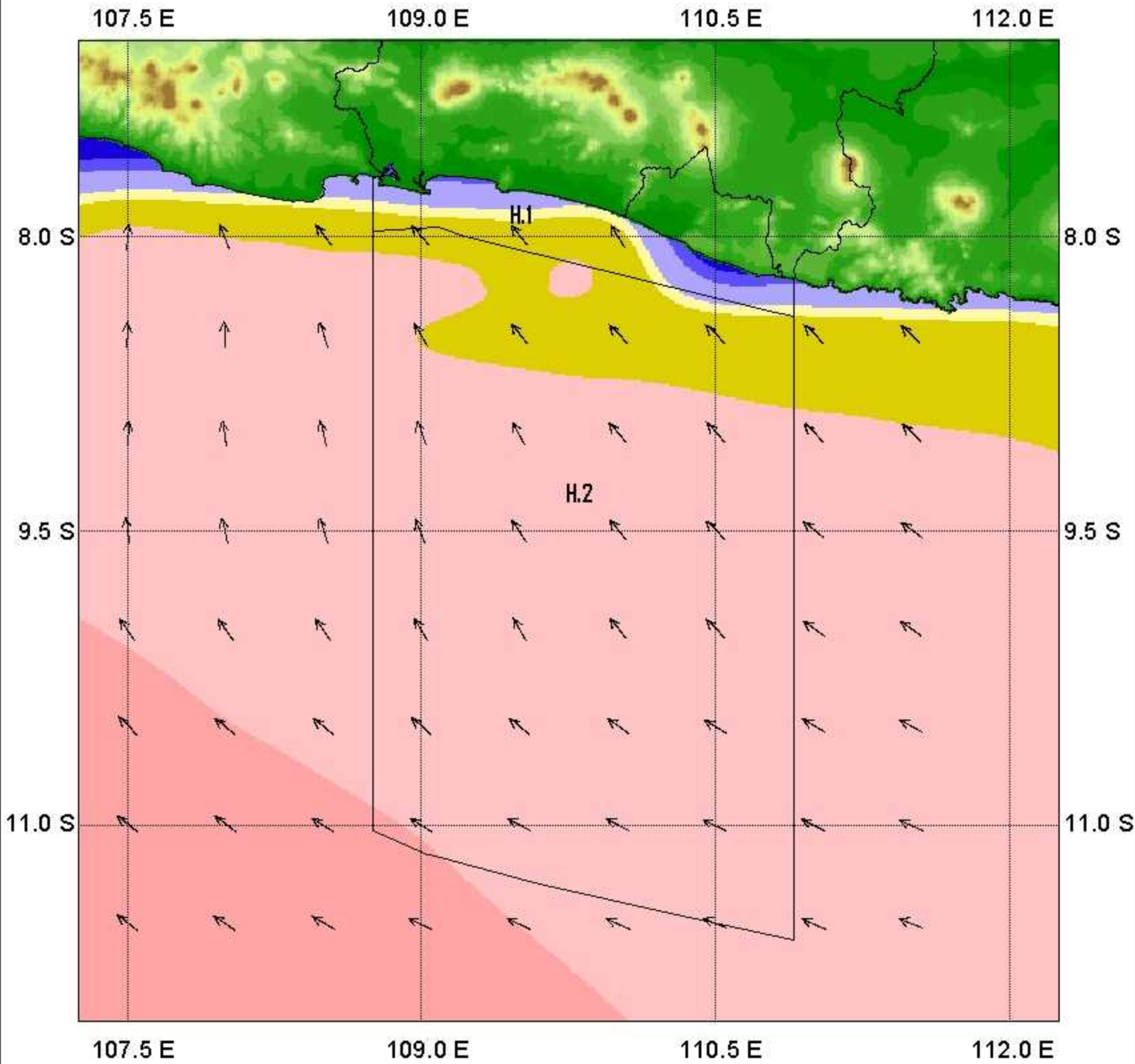
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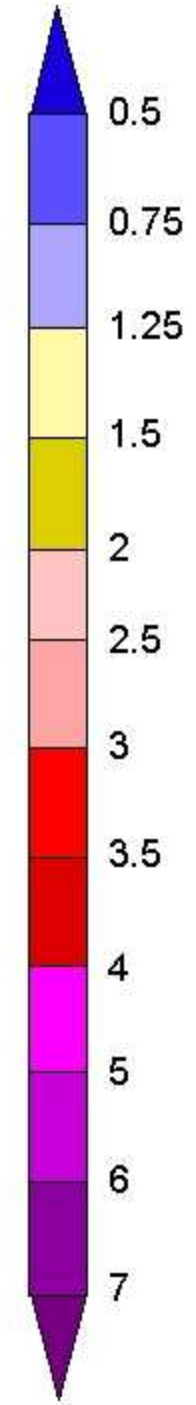
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUN 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

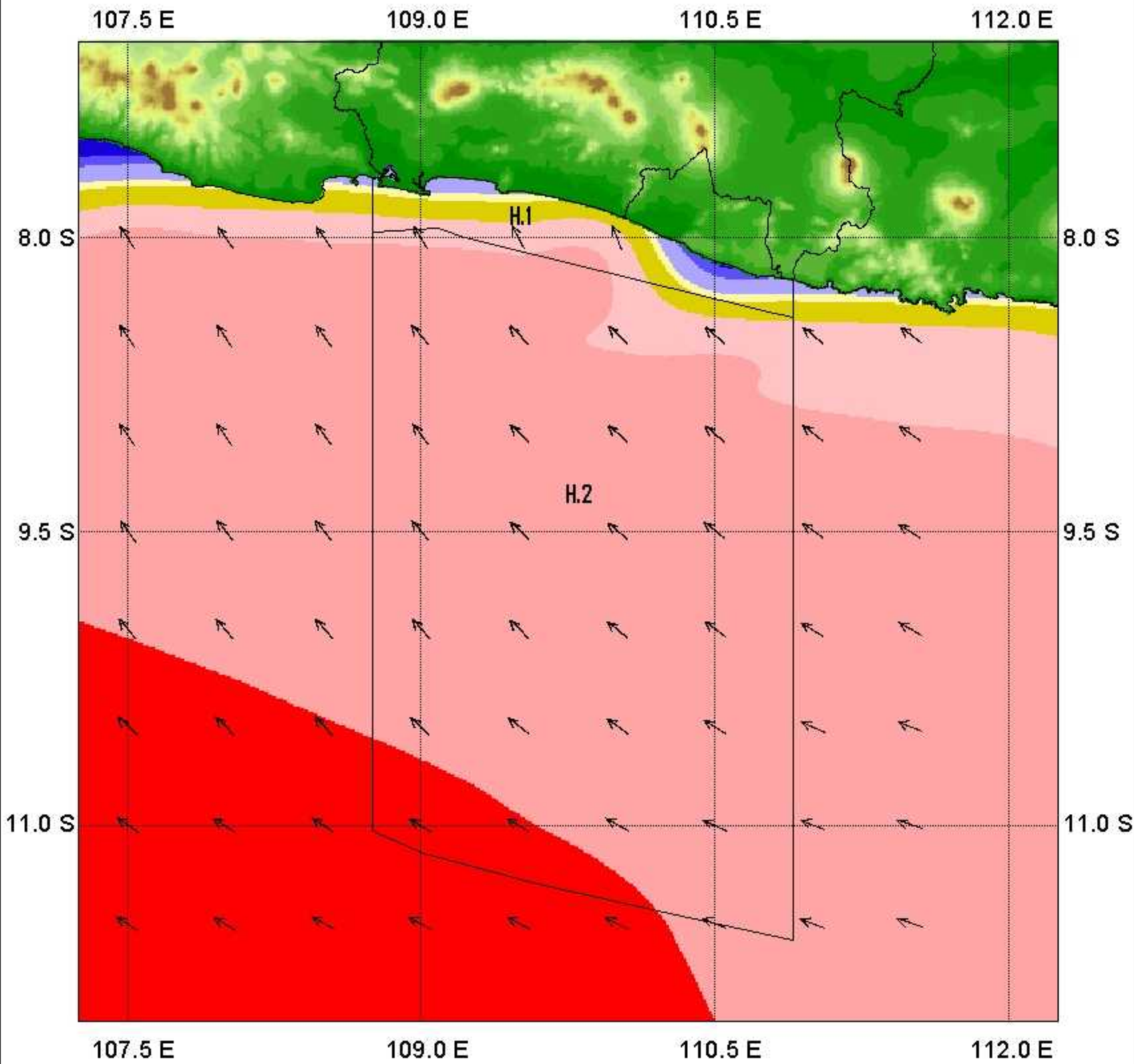
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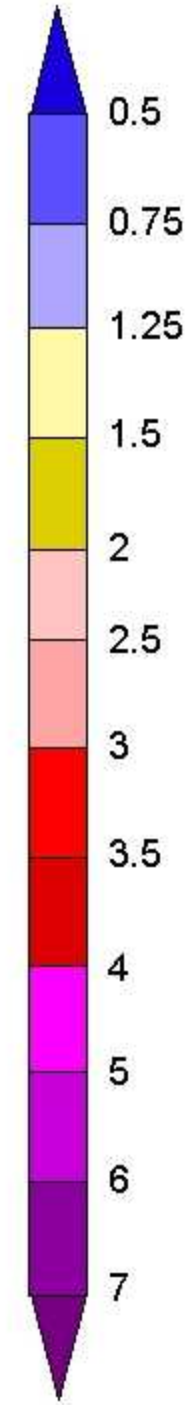
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUL 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

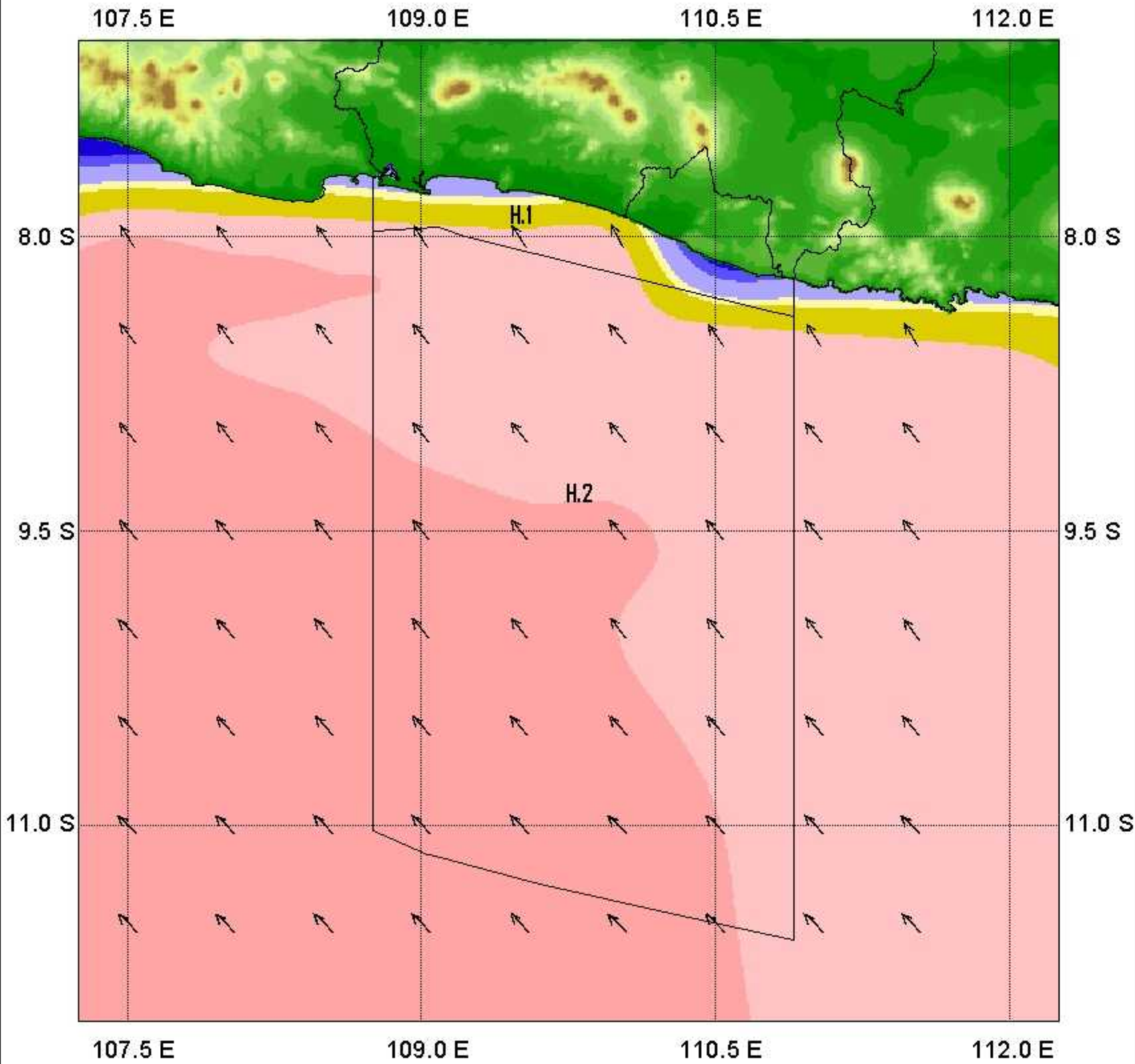
H.2 Sam. Hindia selatan Jawa Tengah



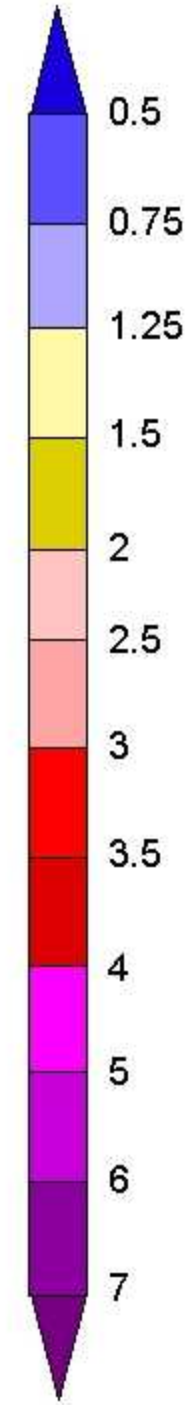
AVE. TOTAL WAVE

MONTHLY ANALYSIS

AUG 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

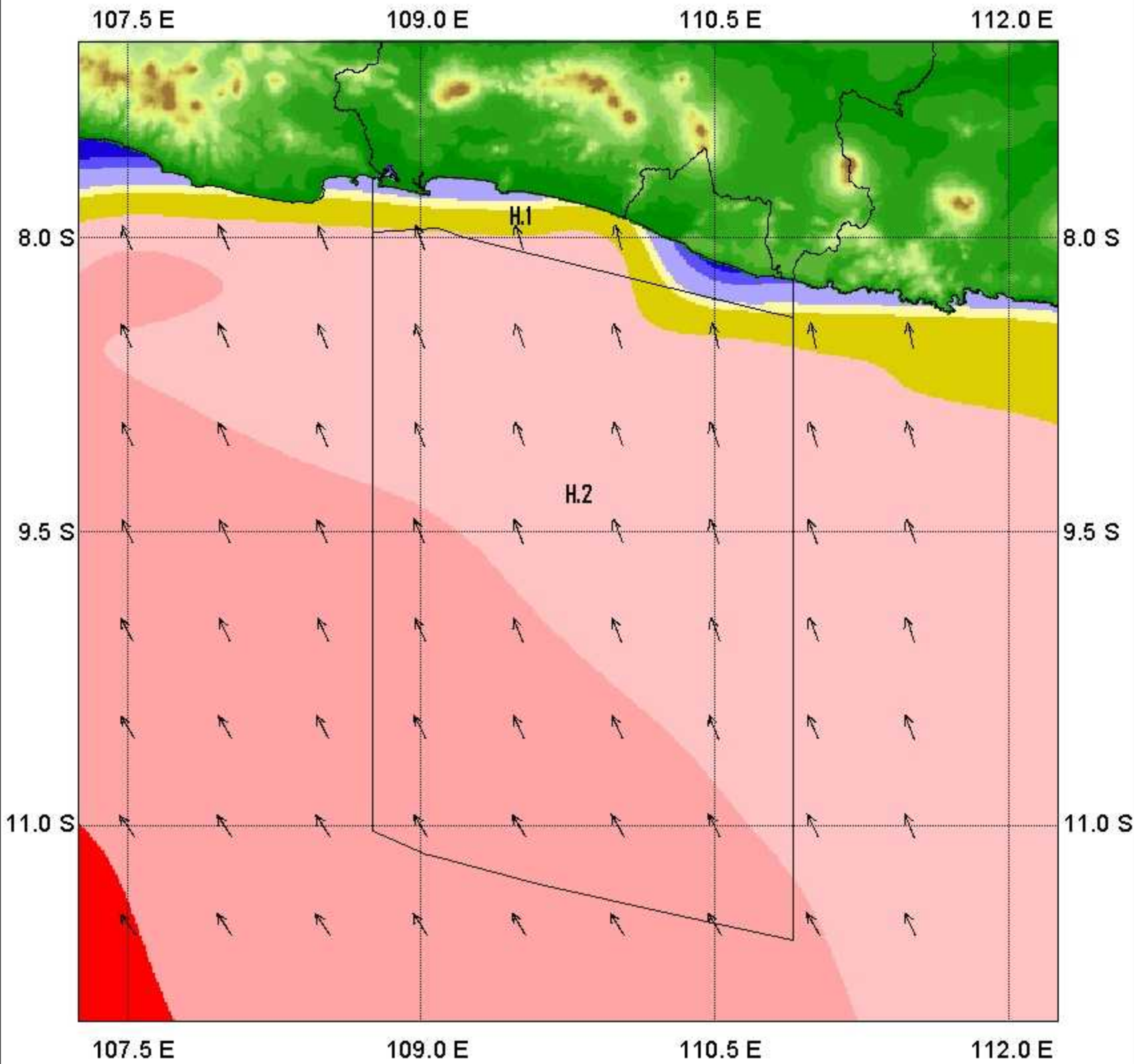
H.2 Sam. Hindia selatan Jawa Tengah



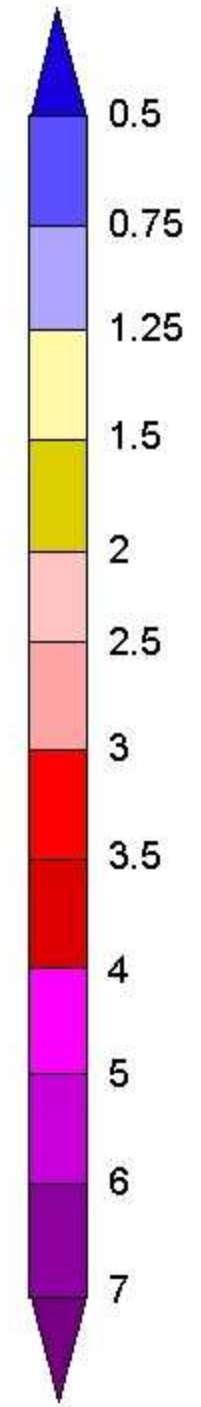
AVE. TOTAL WAVE

MONTHLY ANALYSIS

SEP 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

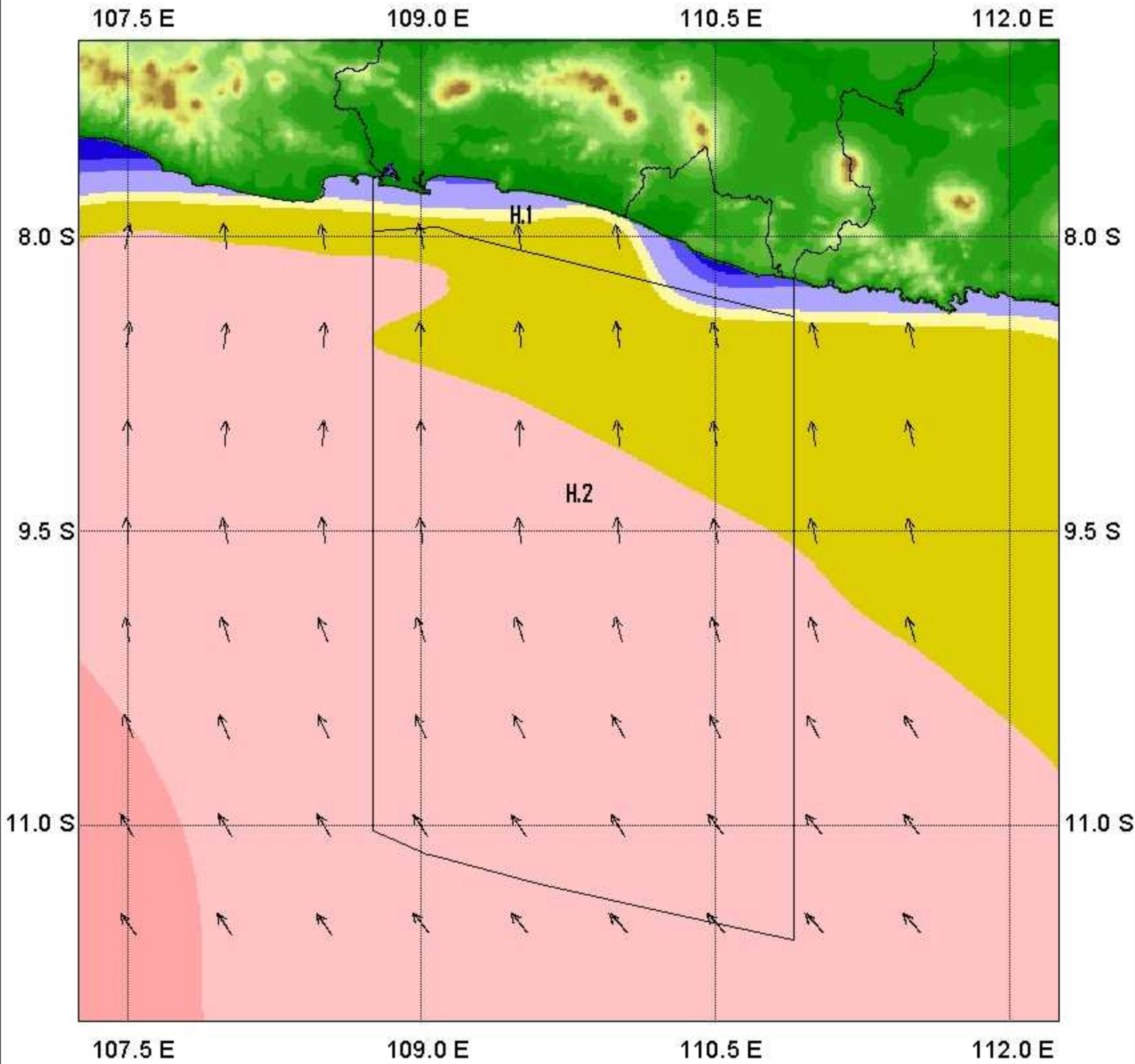
H.2 Sam. Hindia selatan Jawa Tengah



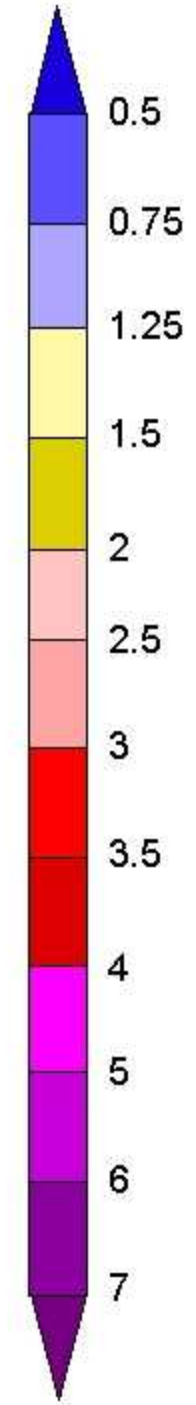
AVE. TOTAL WAVE

MONTHLY ANALYSIS

OCT 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

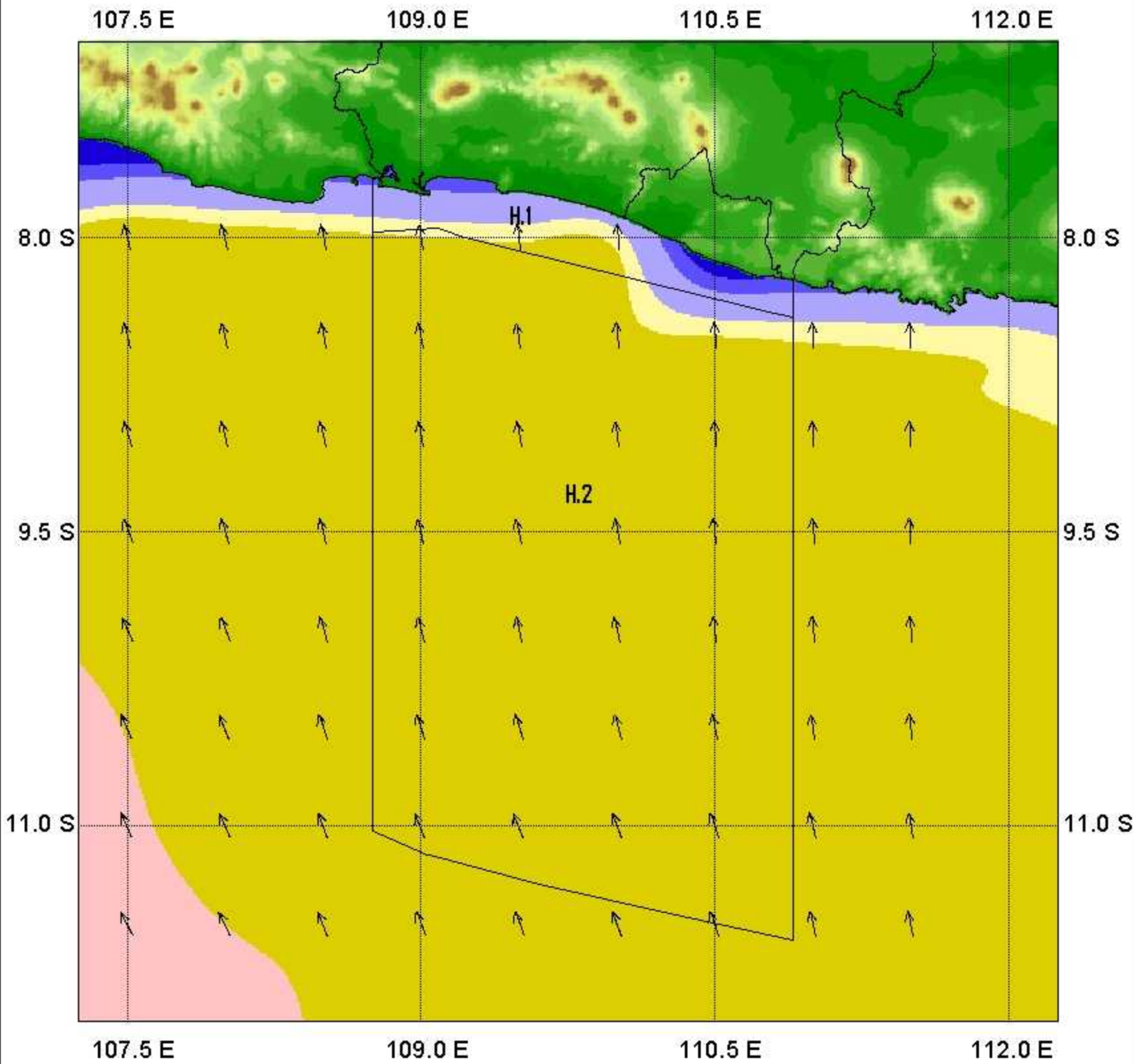
H.2 Sam. Hindia selatan Jawa Tengah



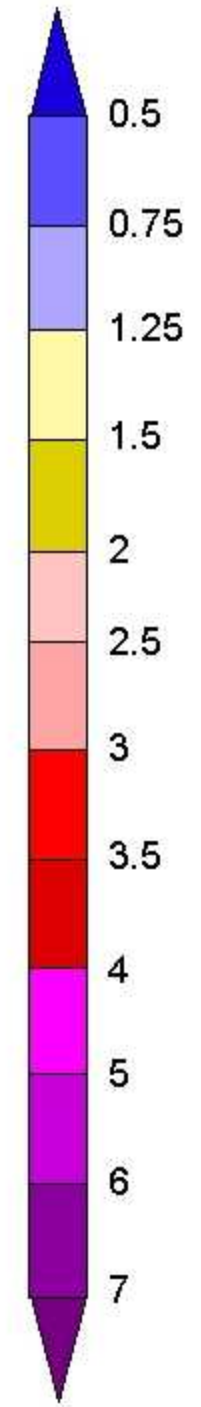
AVE. TOTAL WAVE

MONTHLY ANALYSIS

NOV 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

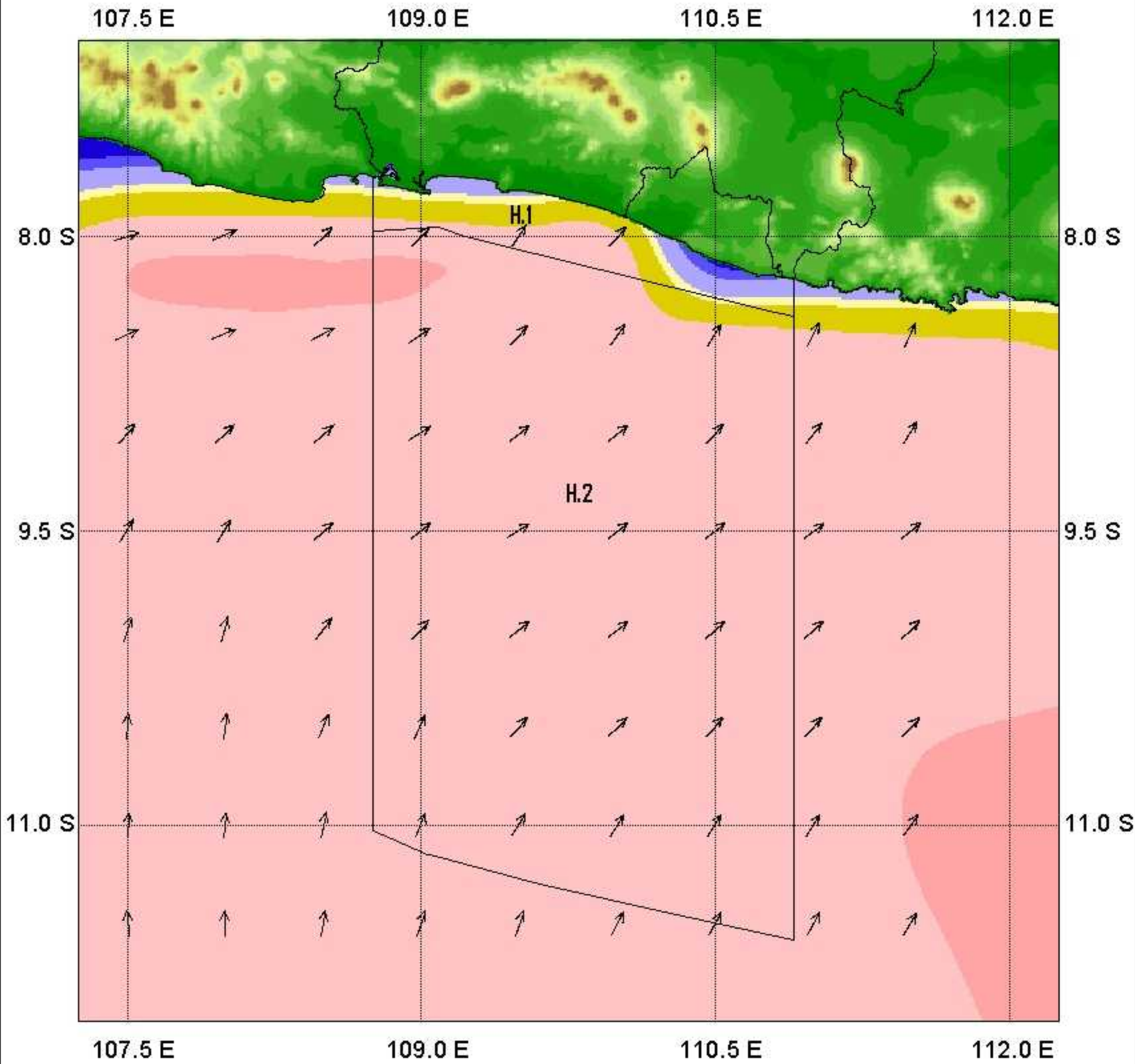
H.2 Sam. Hindia selatan Jawa Tengah



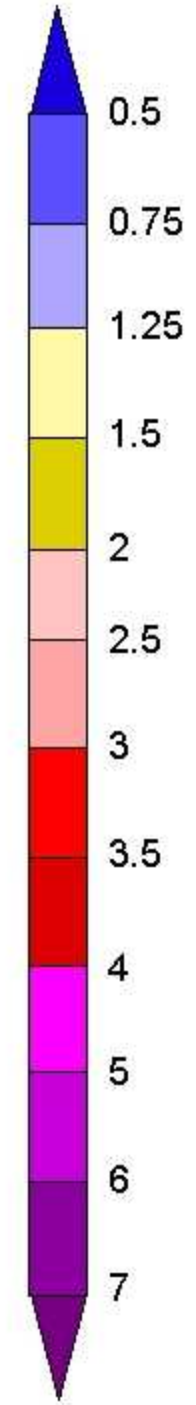
AVE. TOTAL WAVE

MONTHLY ANALYSIS

DEC 2016



Maximum Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

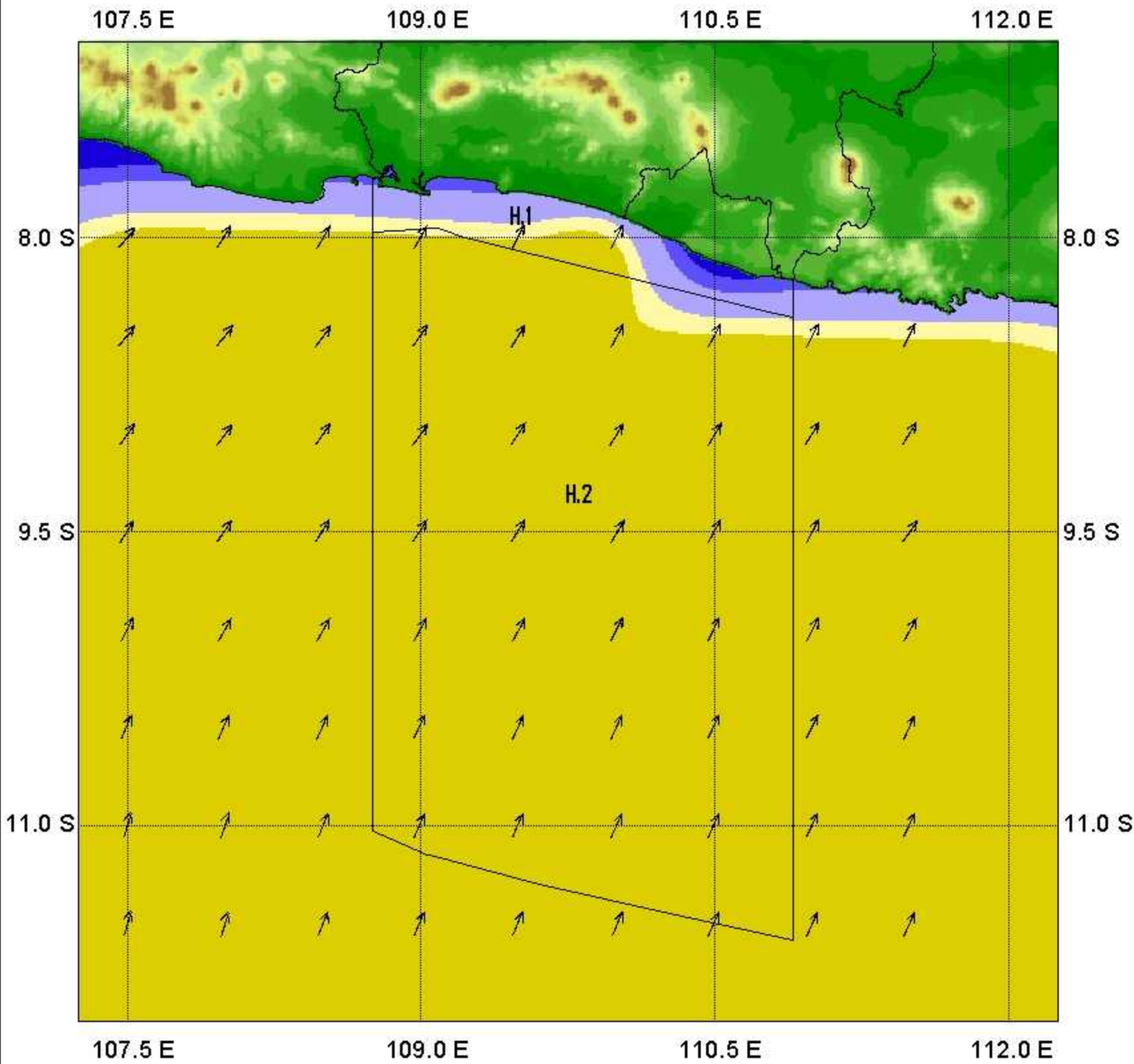
H.2 Sam. Hindia selatan Jawa Tengah



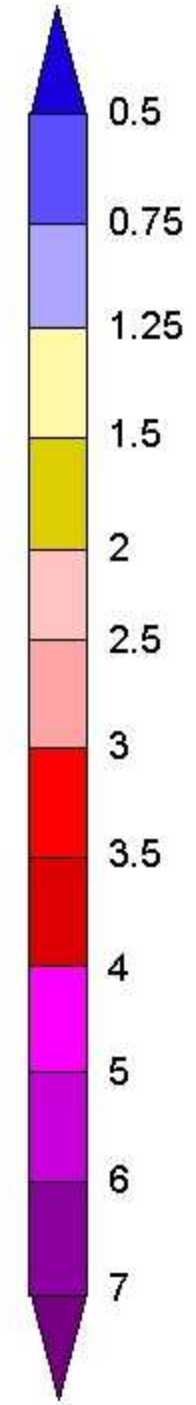
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JAN 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

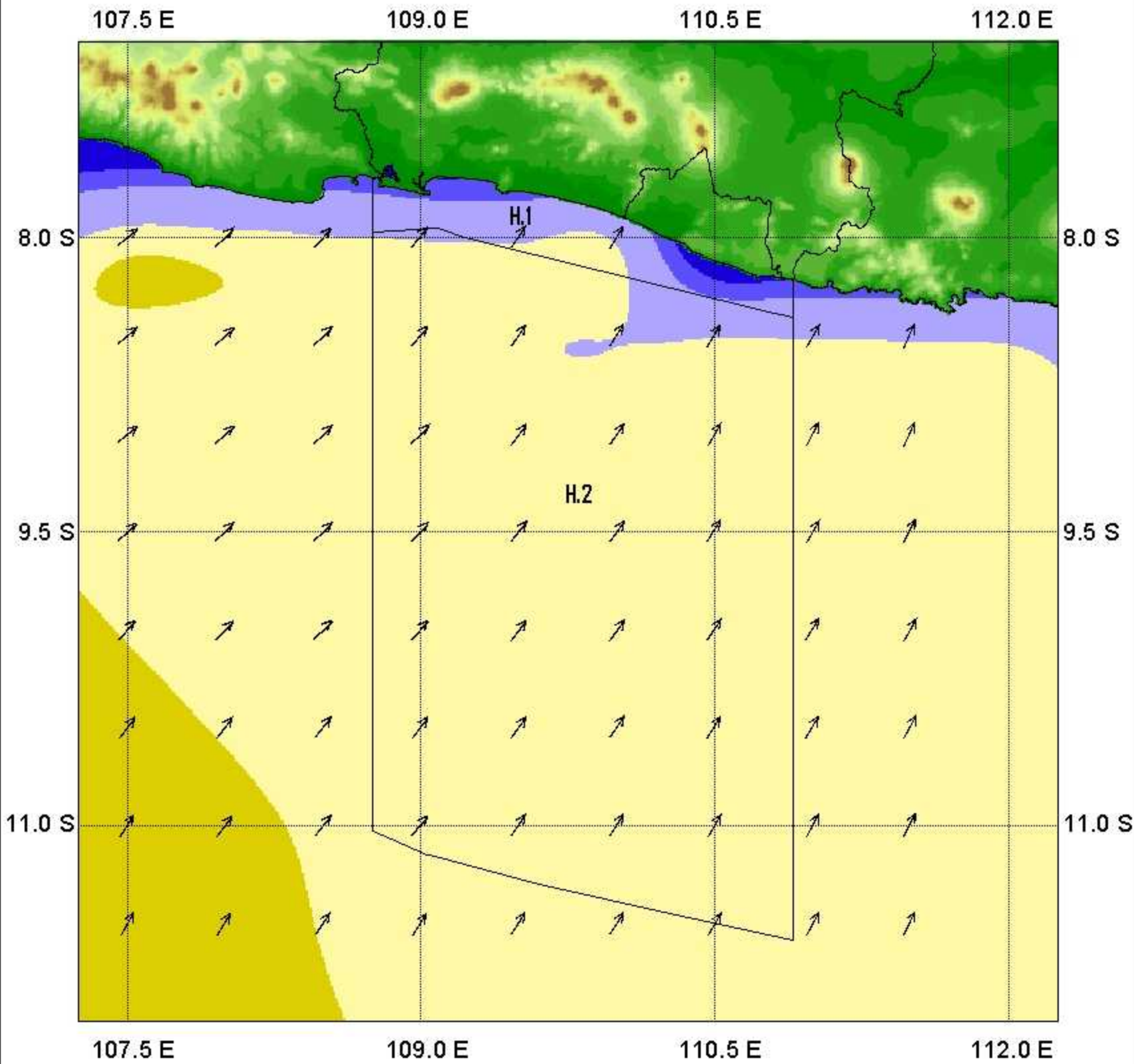
H.2 Sam. Hindia selatan Jawa Tengah



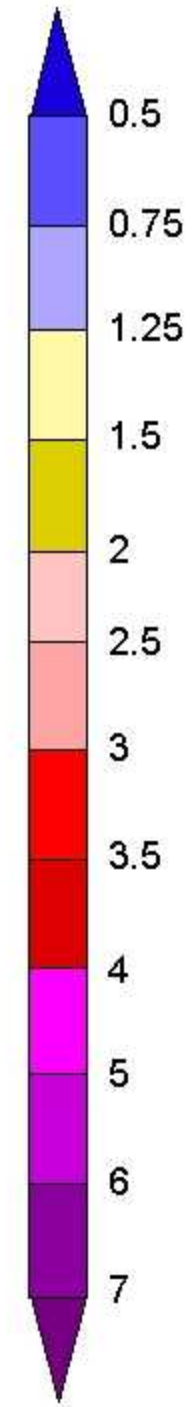
AVE. TOTAL WAVE

MONTHLY ANALYSIS

FEB 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

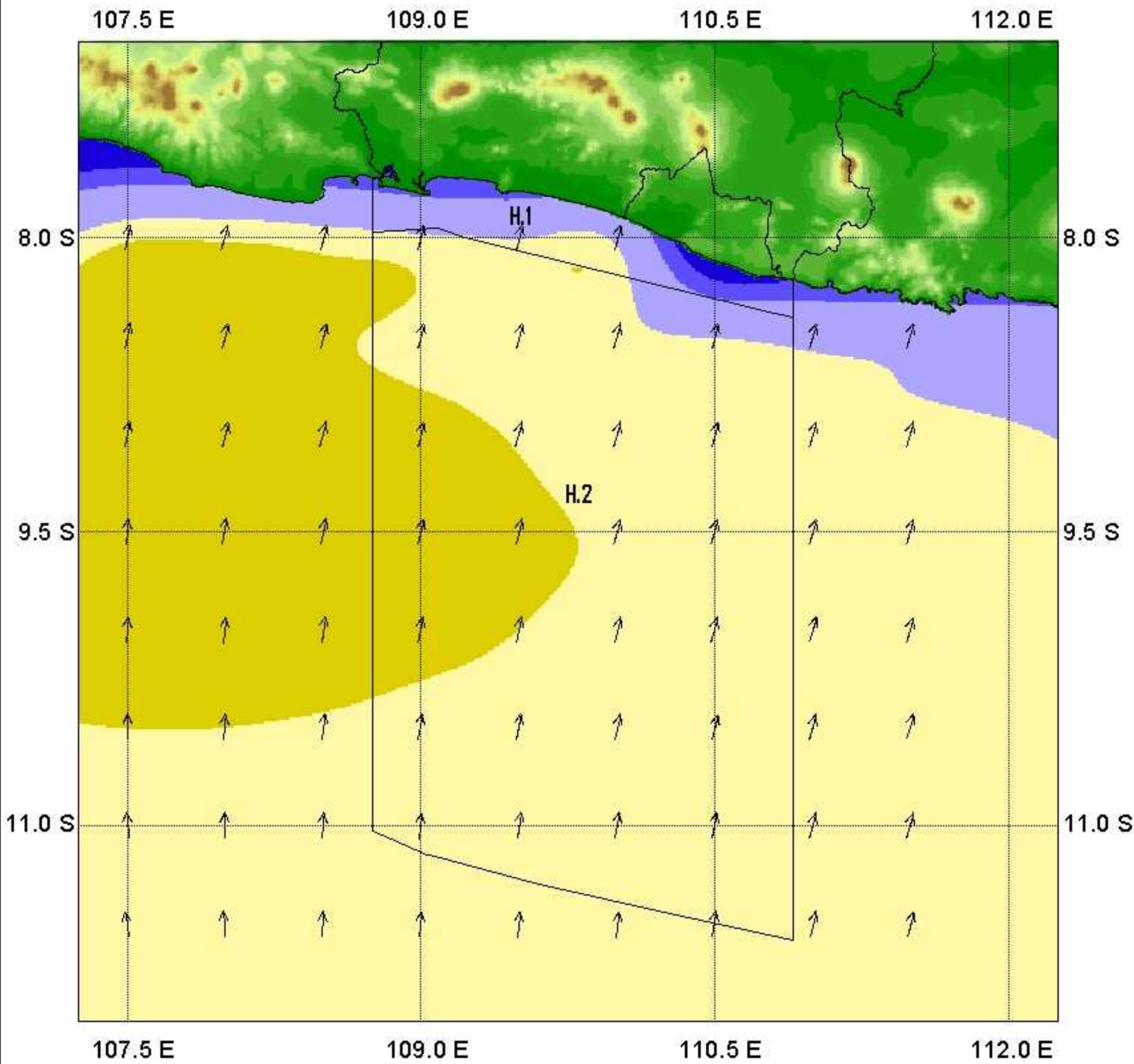
H.2 Sam. Hindia selatan Jawa Tengah



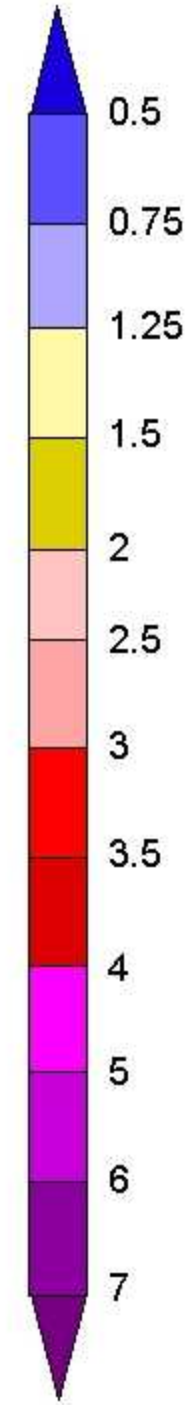
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAR 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

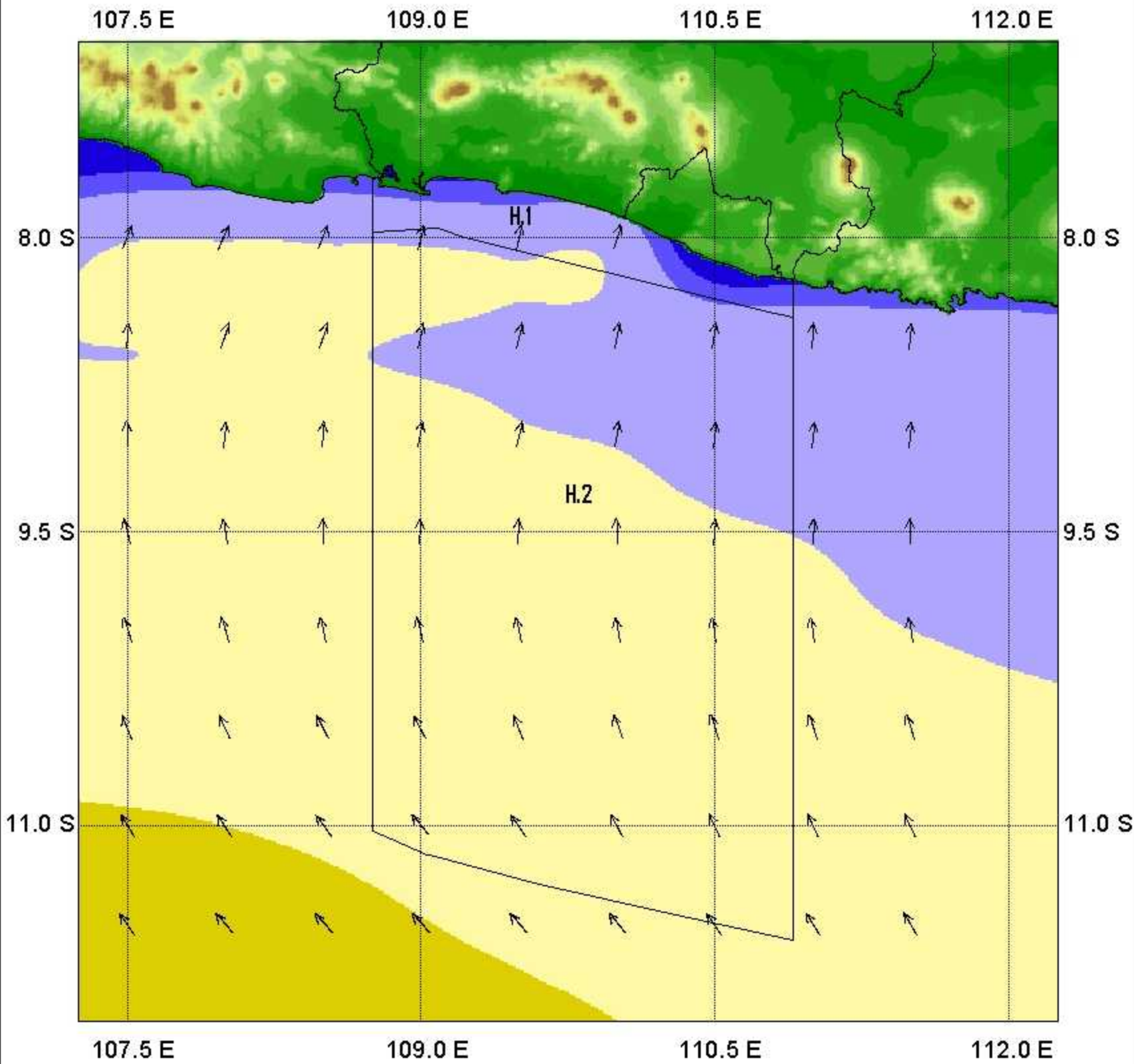
H.2 Sam. Hindia selatan Jawa Tengah



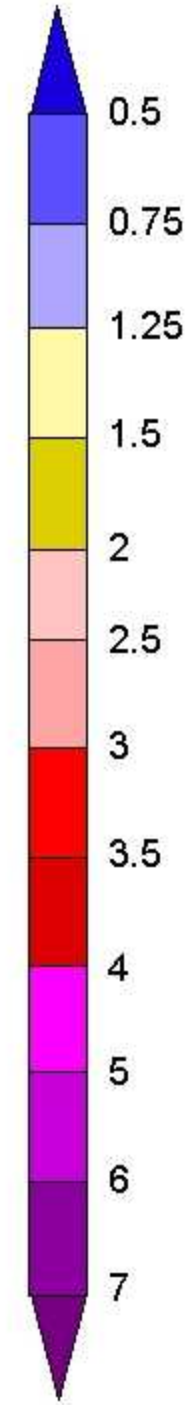
AVE. TOTAL WAVE

MONTHLY ANALYSIS

APR 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

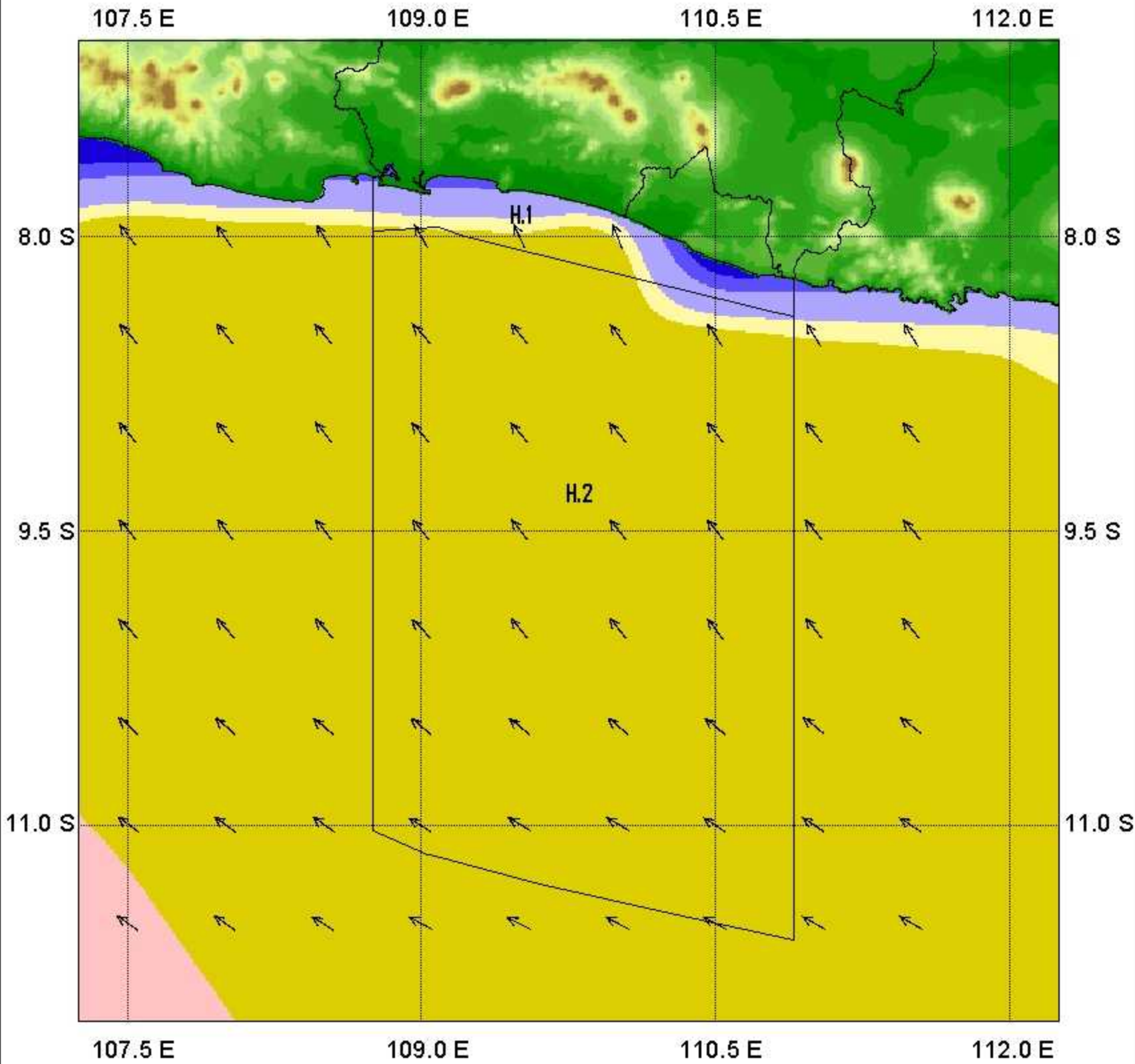
H.2 Sam. Hindia selatan Jawa Tengah



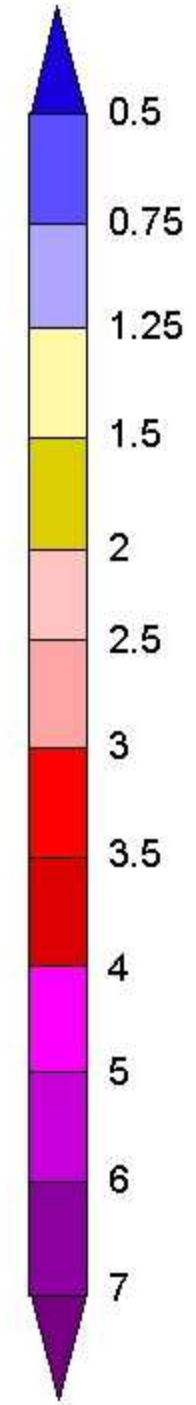
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAY 2015



Significant Height (m)



↑ : Primary Wave Direction

[H.1] Perairan selatan Jawa Tengah

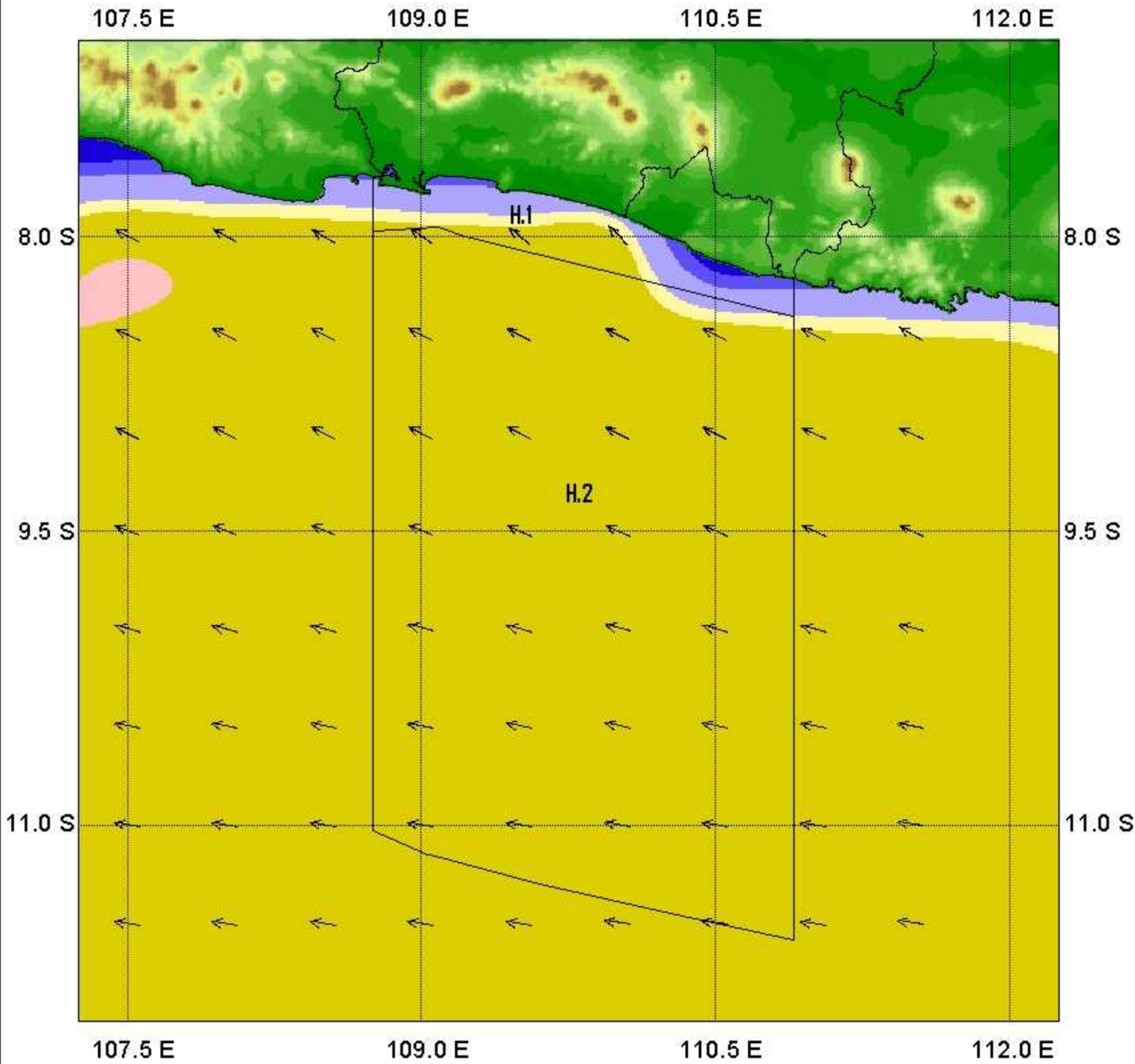
[H.2] Sam. Hindia selatan Jawa Tengah



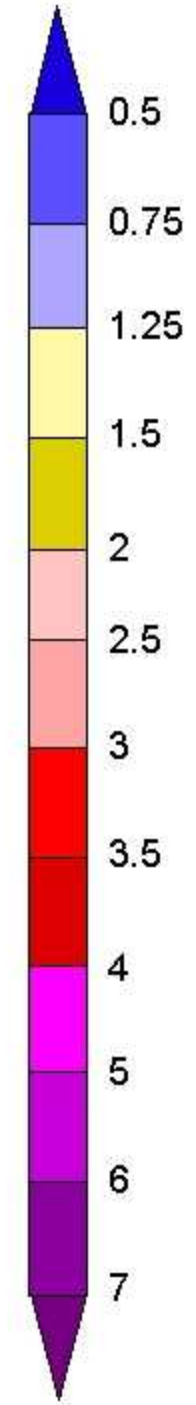
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUN 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

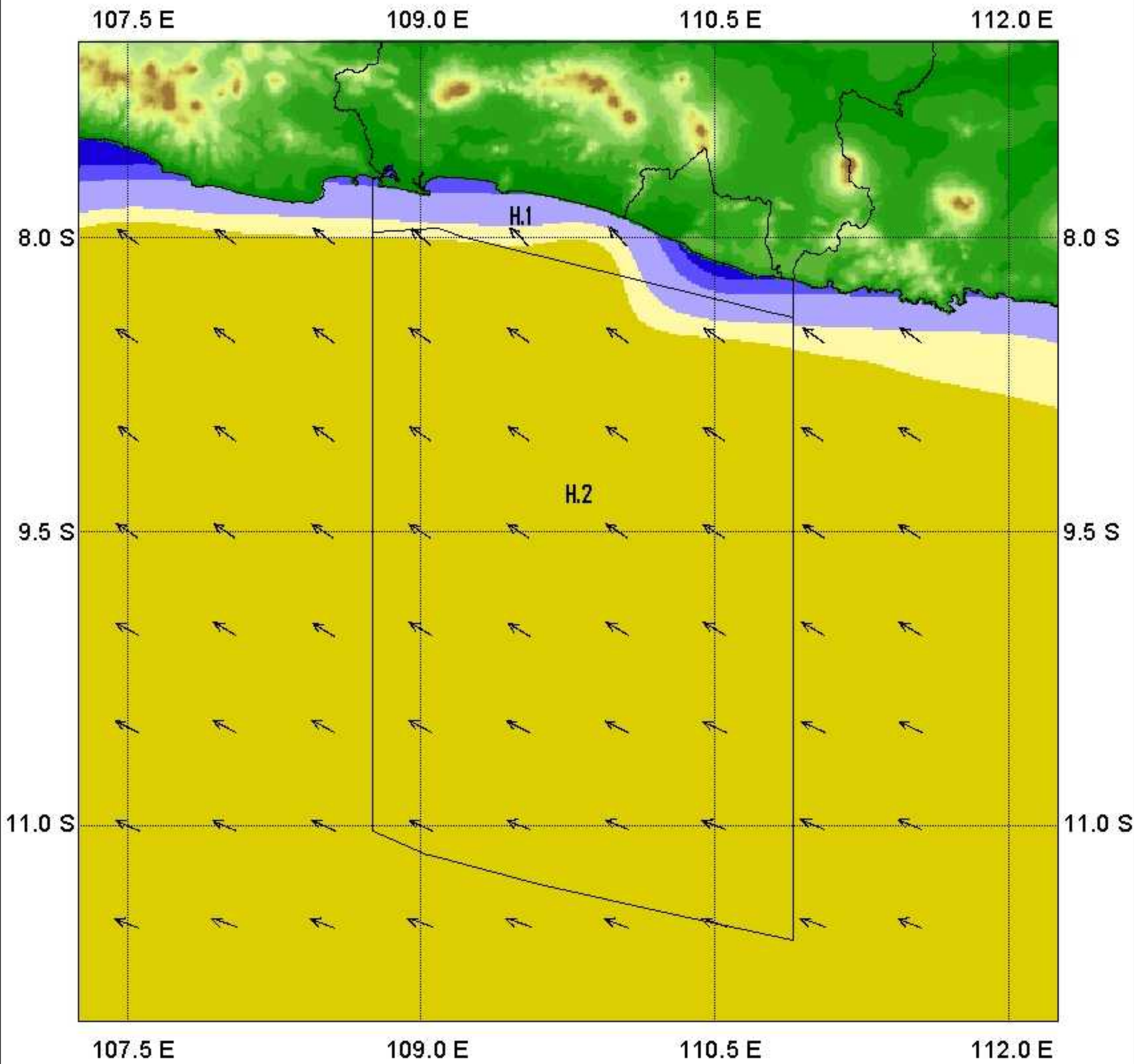
H.2 Sam. Hindia selatan Jawa Tengah



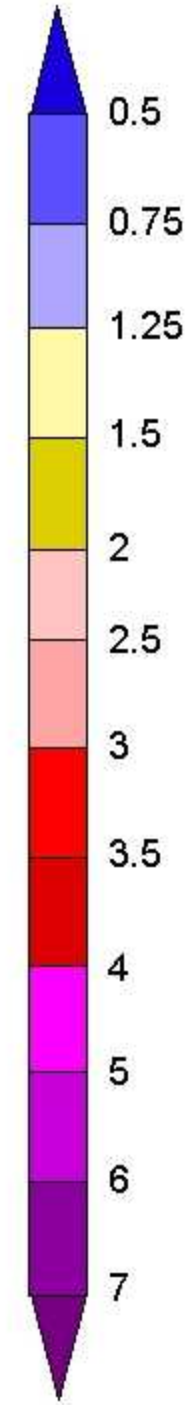
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUL 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

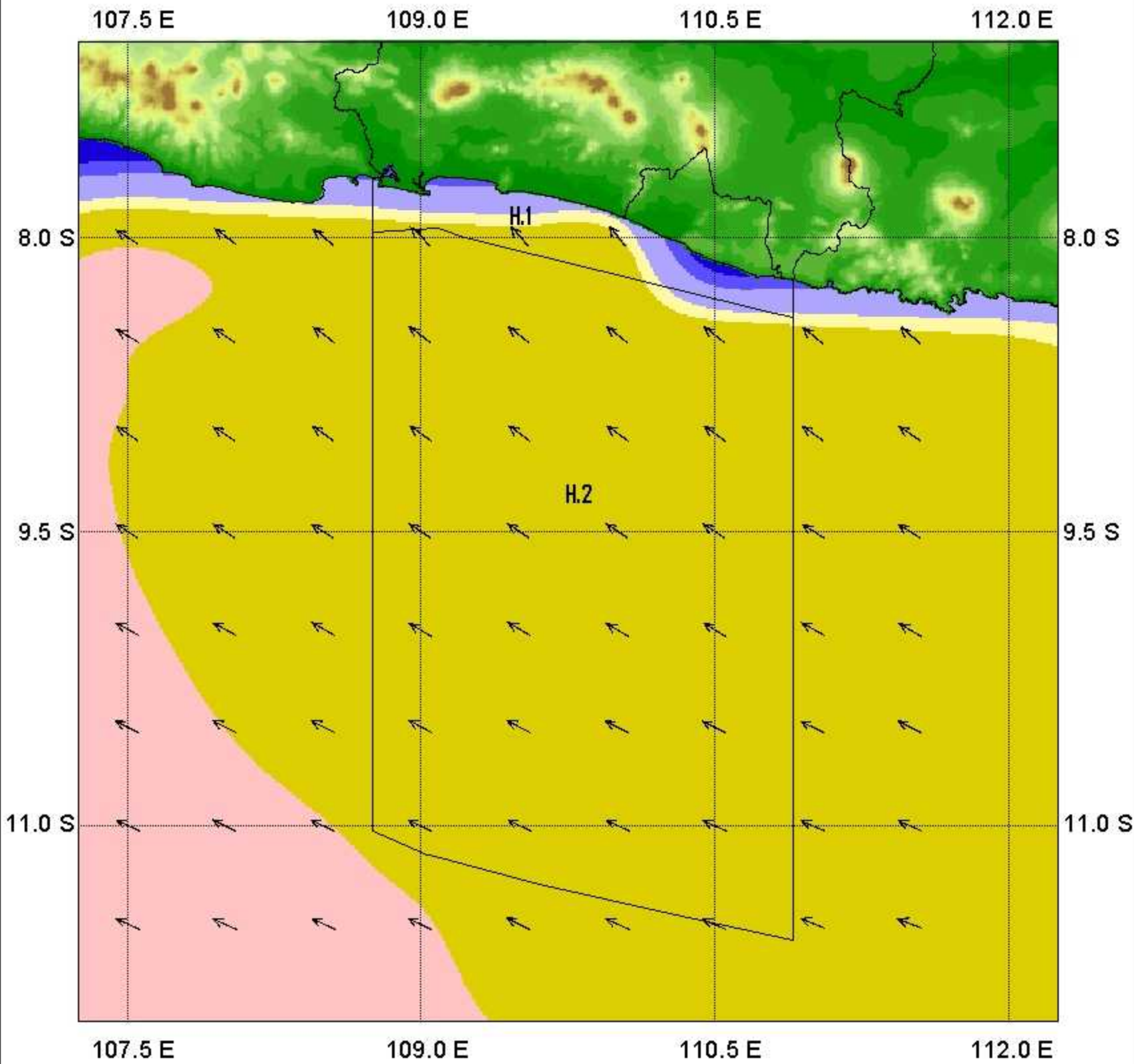
H.2 Sam. Hindia selatan Jawa Tengah



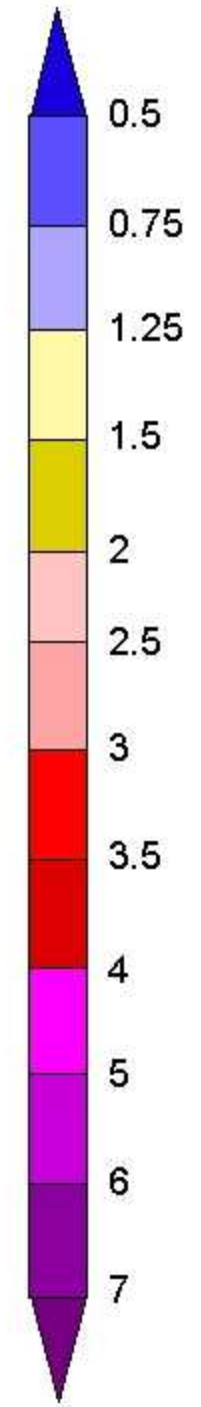
AVE. TOTAL WAVE

MONTHLY ANALYSIS

AUG 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

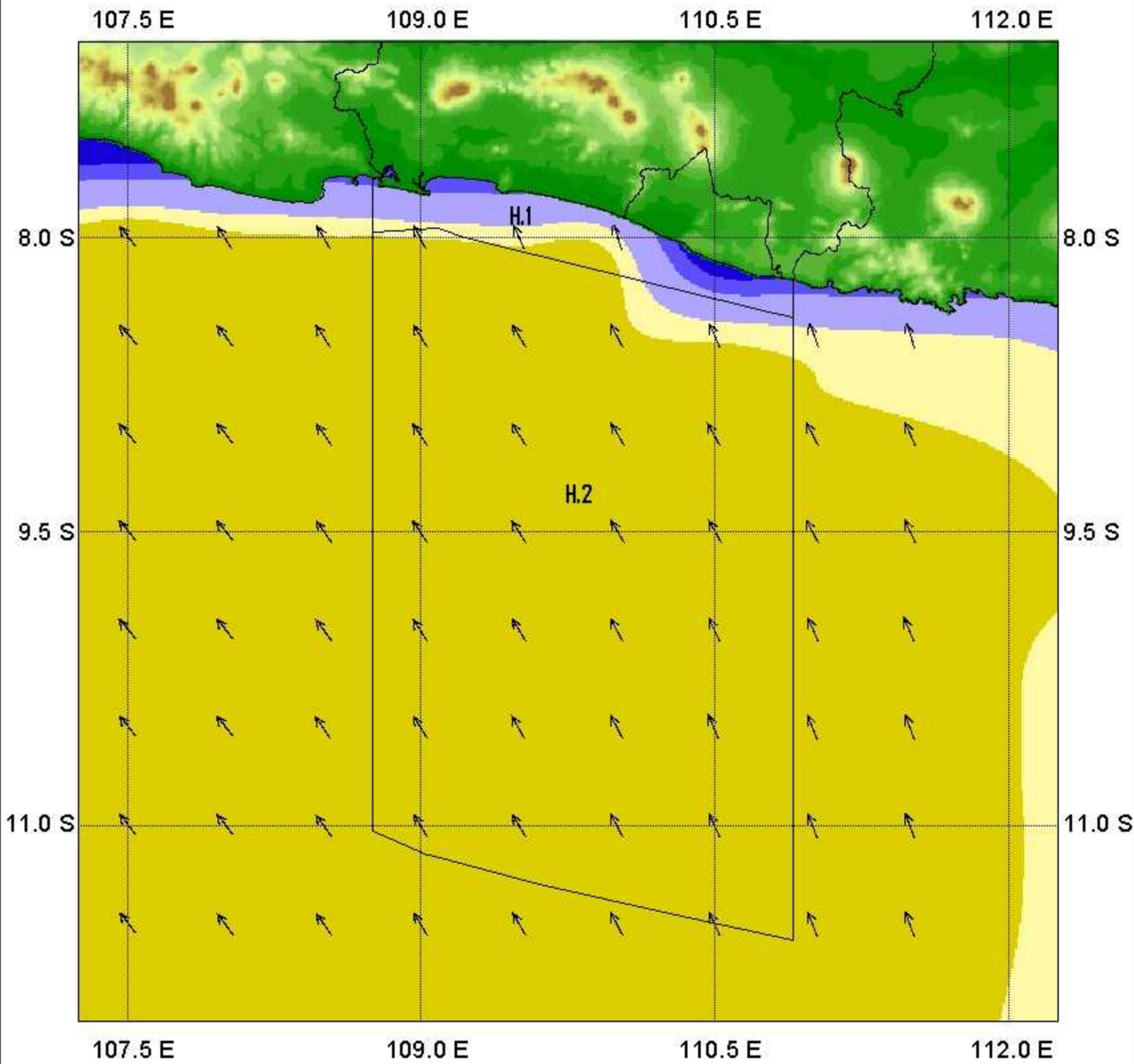
H.2 Sam. Hindia selatan Jawa Tengah



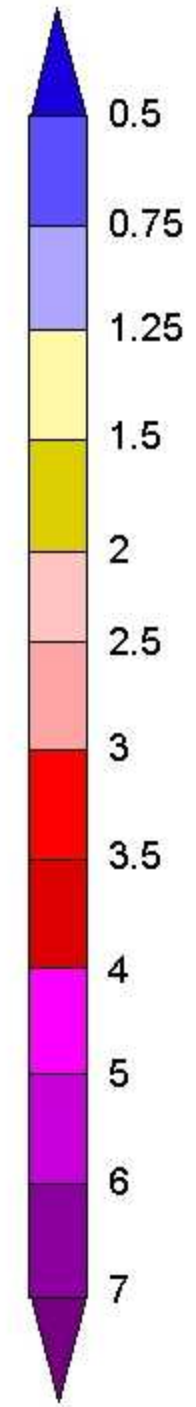
AVE. TOTAL WAVE

MONTHLY ANALYSIS

SEP 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

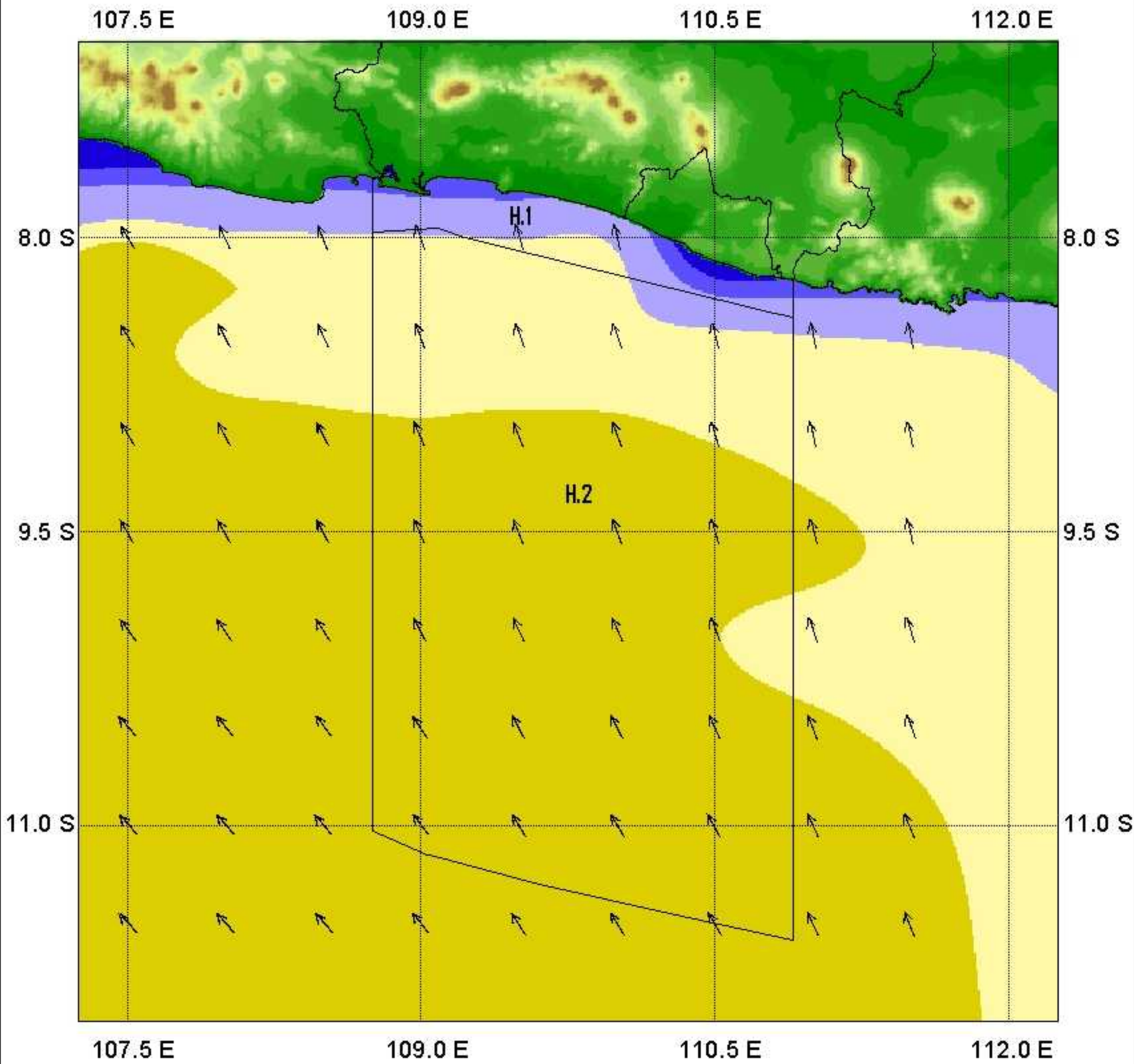
H.2 Sam. Hindia selatan Jawa Tengah



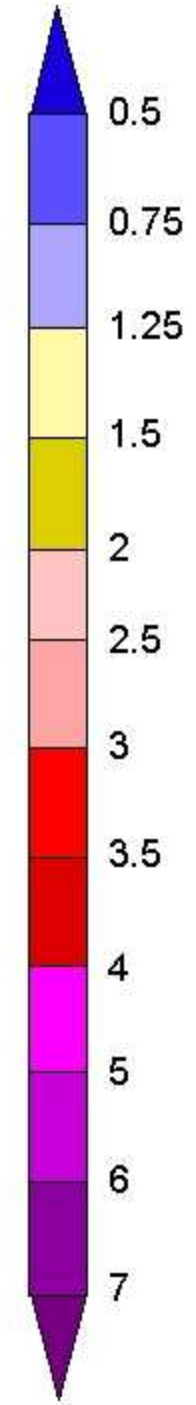
AVE. TOTAL WAVE

MONTHLY ANALYSIS

OCT 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

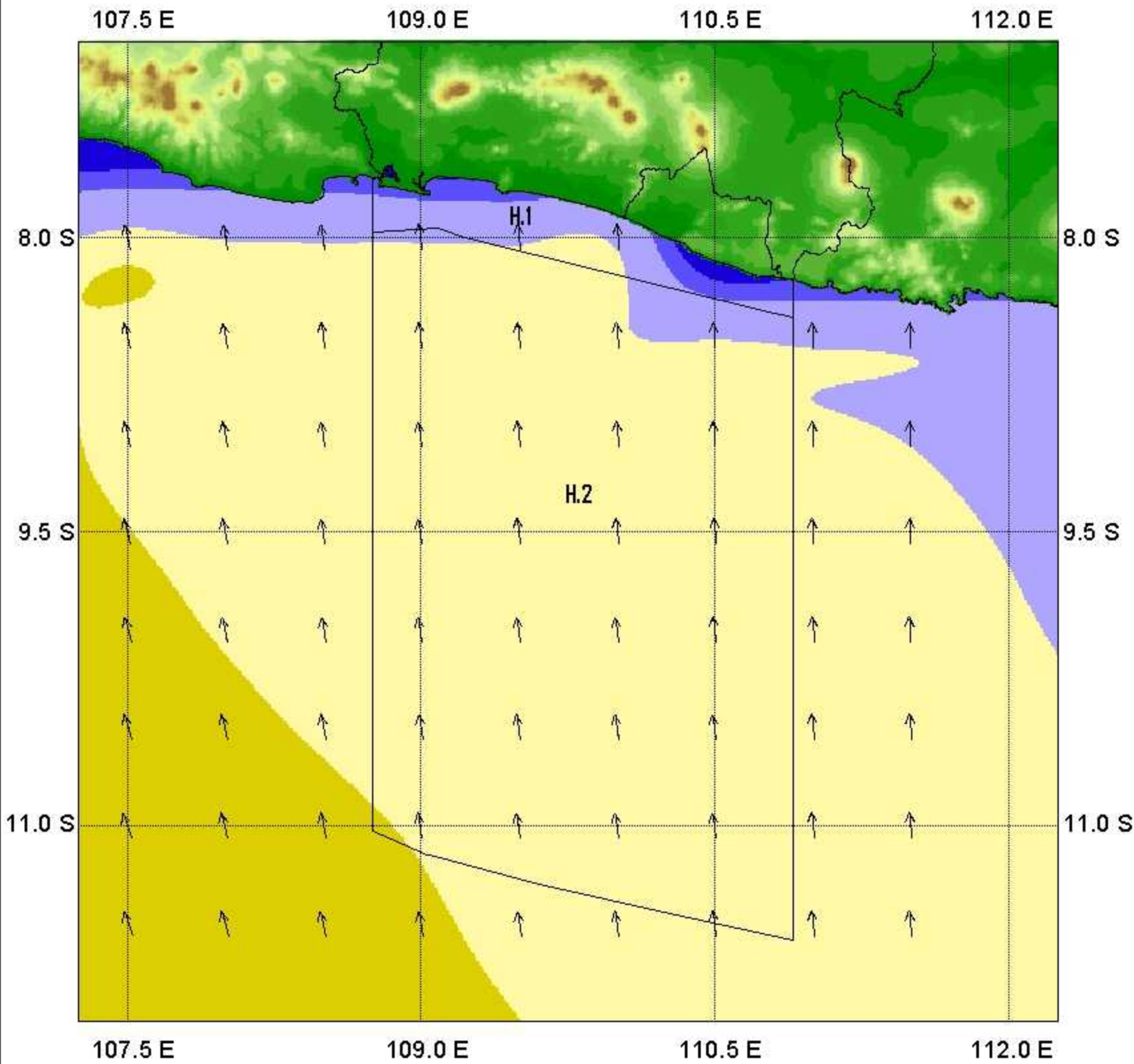
H.2 Sam. Hindia selatan Jawa Tengah



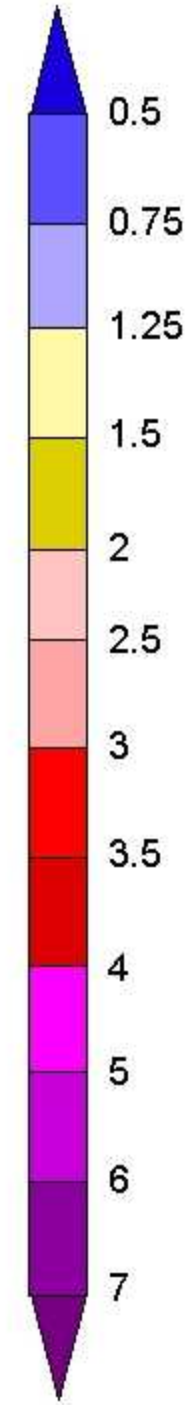
AVE. TOTAL WAVE

MONTHLY ANALYSIS

NOV 2015



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

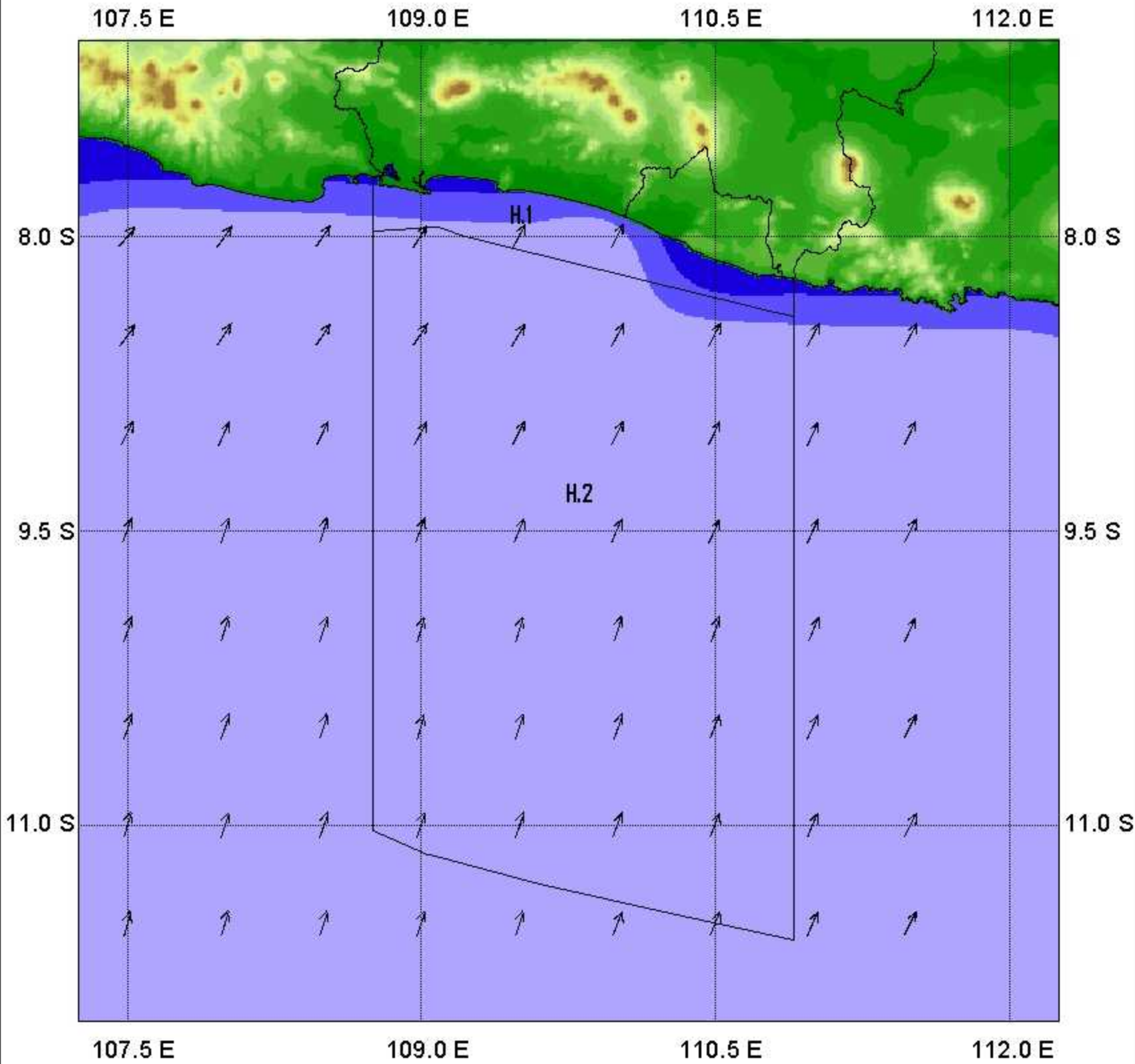
H.2 Sam. Hindia selatan Jawa Tengah



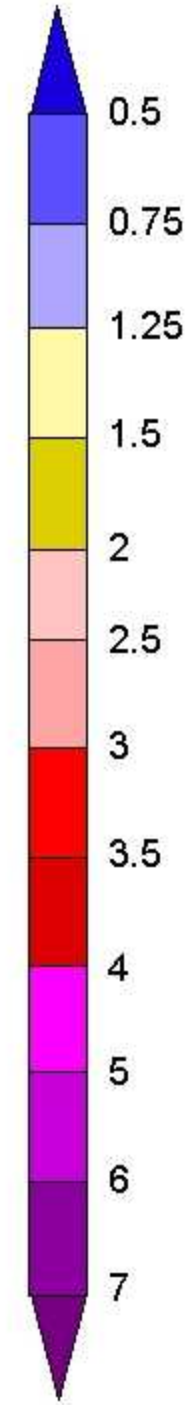
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JAN 2016



Significant Height (m)



↑ : Primary Wave Direction

[H.1] Perairan selatan Jawa Tengah

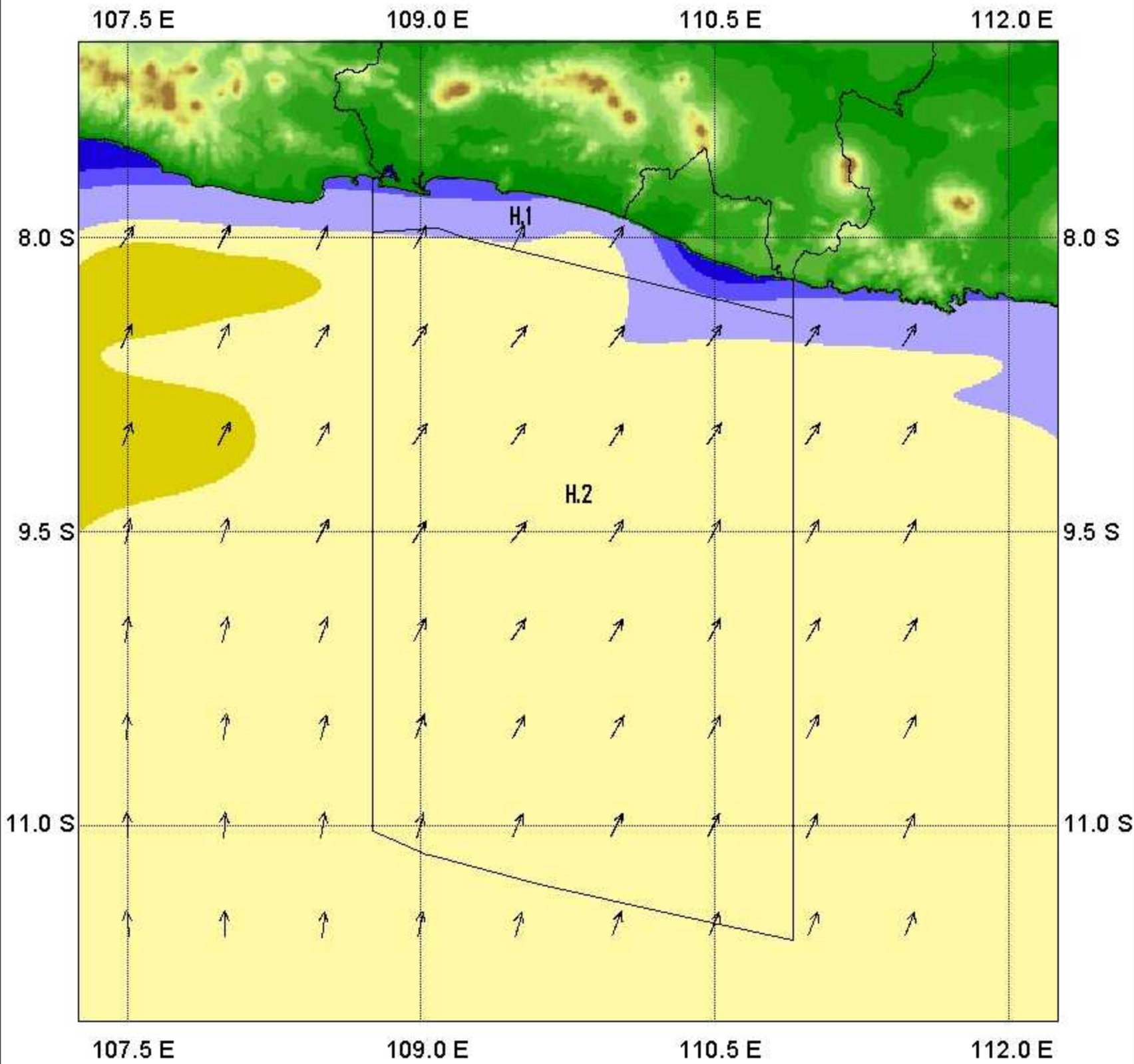
[H.2] Sam. Hindia selatan Jawa Tengah



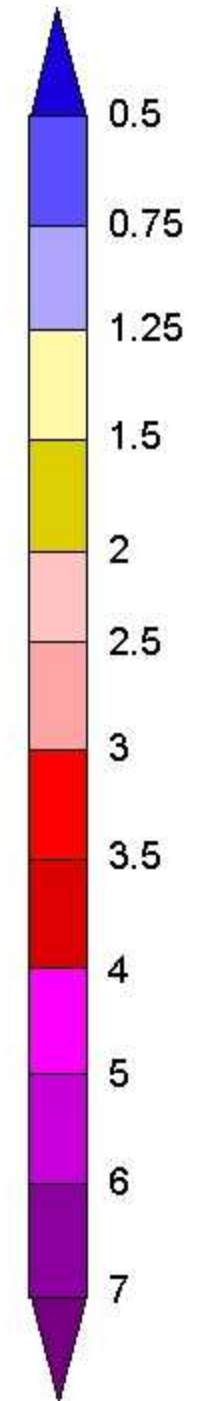
AVE. TOTAL WAVE

MONTHLY ANALYSIS

FEB 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

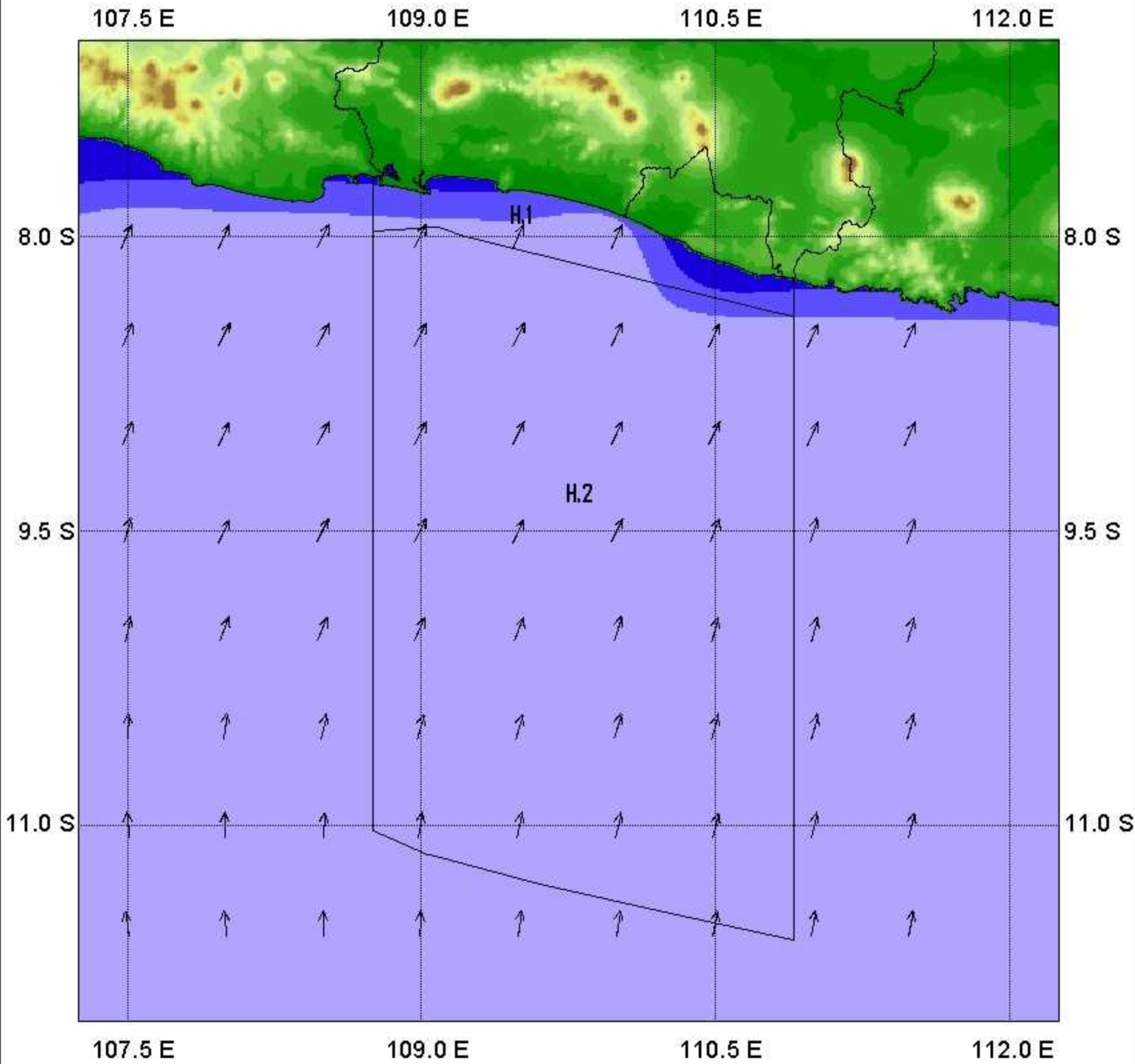
H.2 Sam. Hindia selatan Jawa Tengah



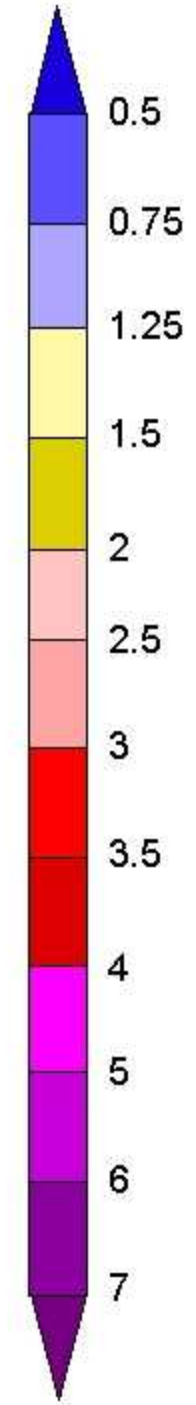
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAR 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

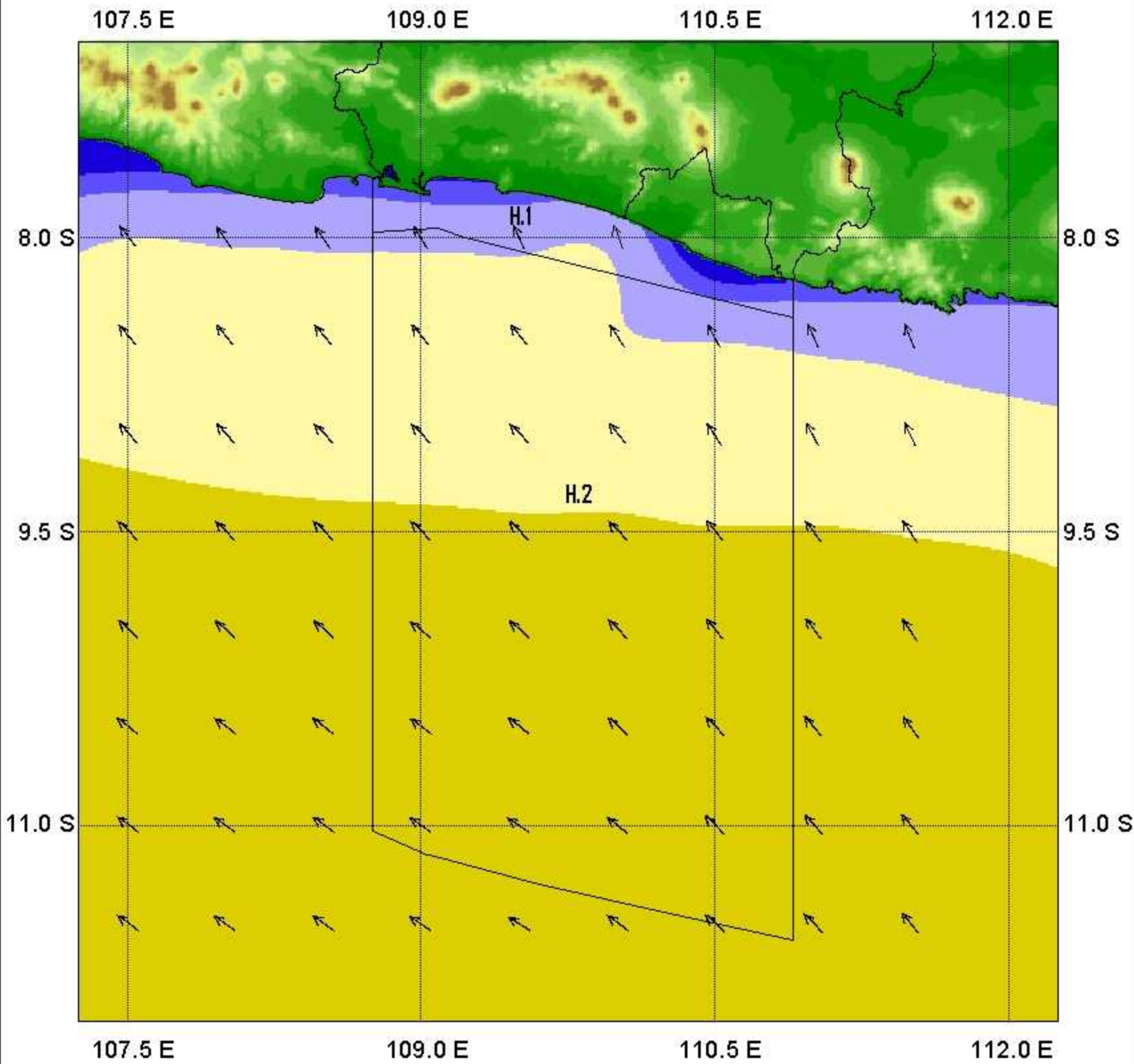
H.2 Sam. Hindia selatan Jawa Tengah



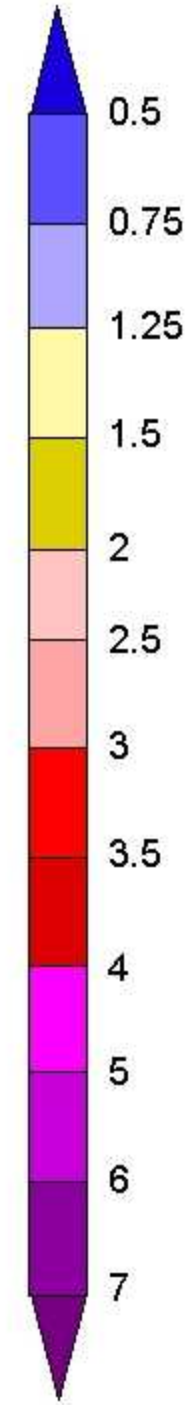
AVE. TOTAL WAVE

MONTHLY ANALYSIS

APR 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

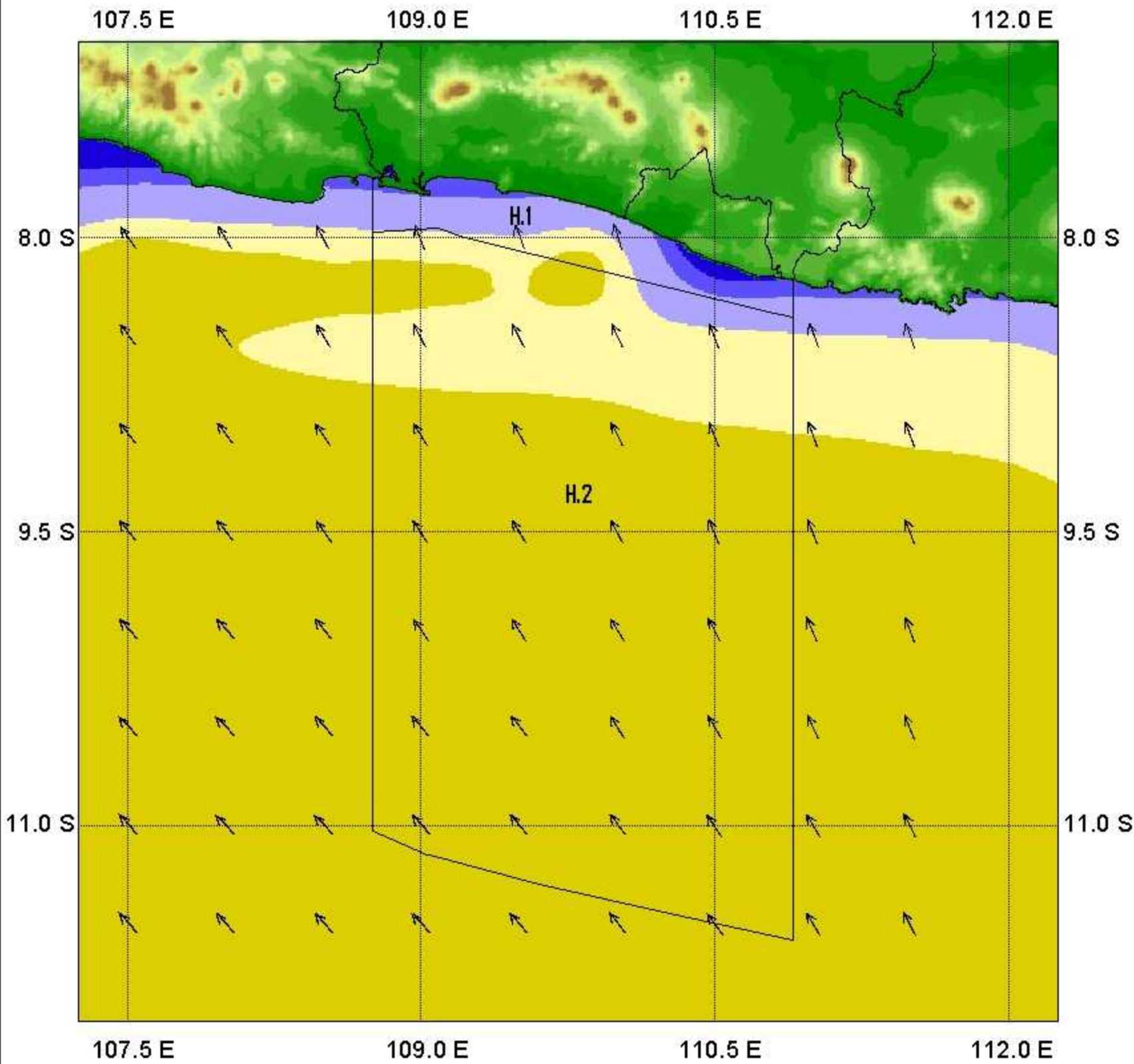
H.2 Sam. Hindia selatan Jawa Tengah



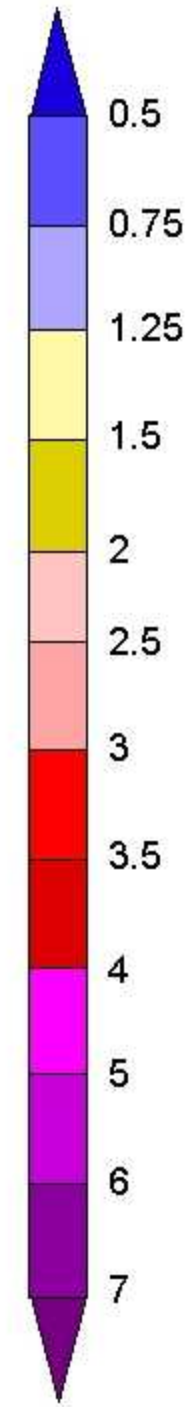
AVE. TOTAL WAVE

MONTHLY ANALYSIS

MAY 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

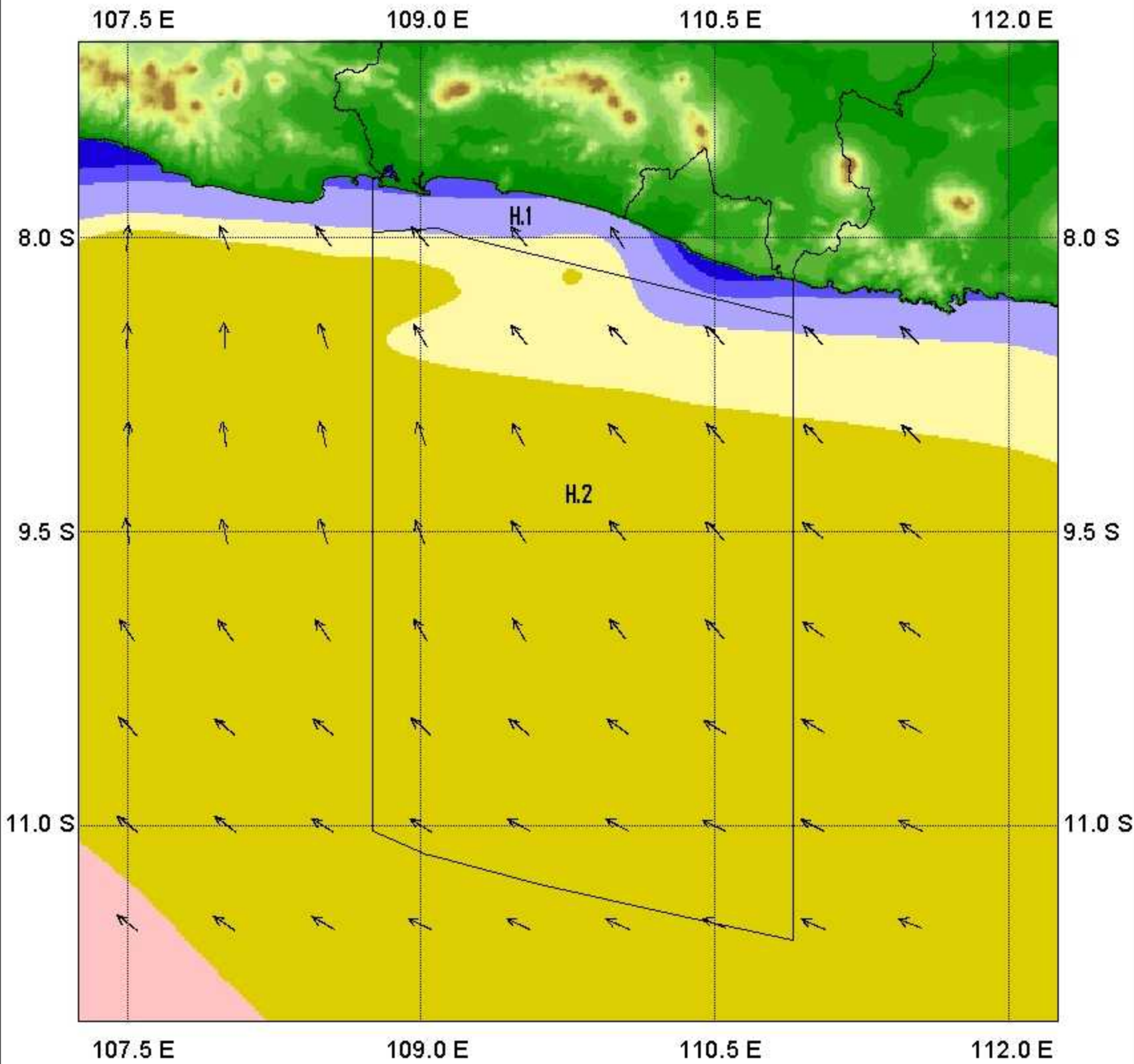
H.2 Sam. Hindia selatan Jawa Tengah



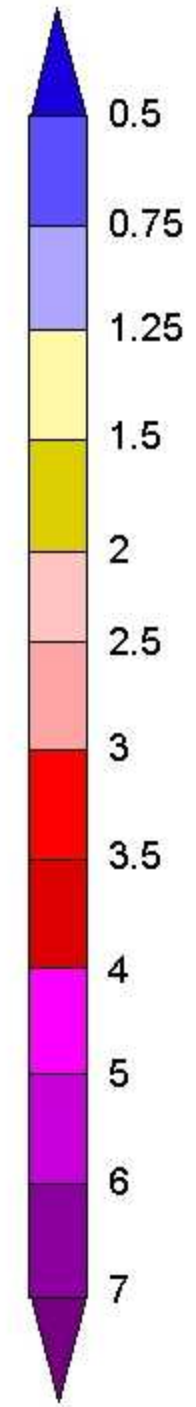
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUN 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

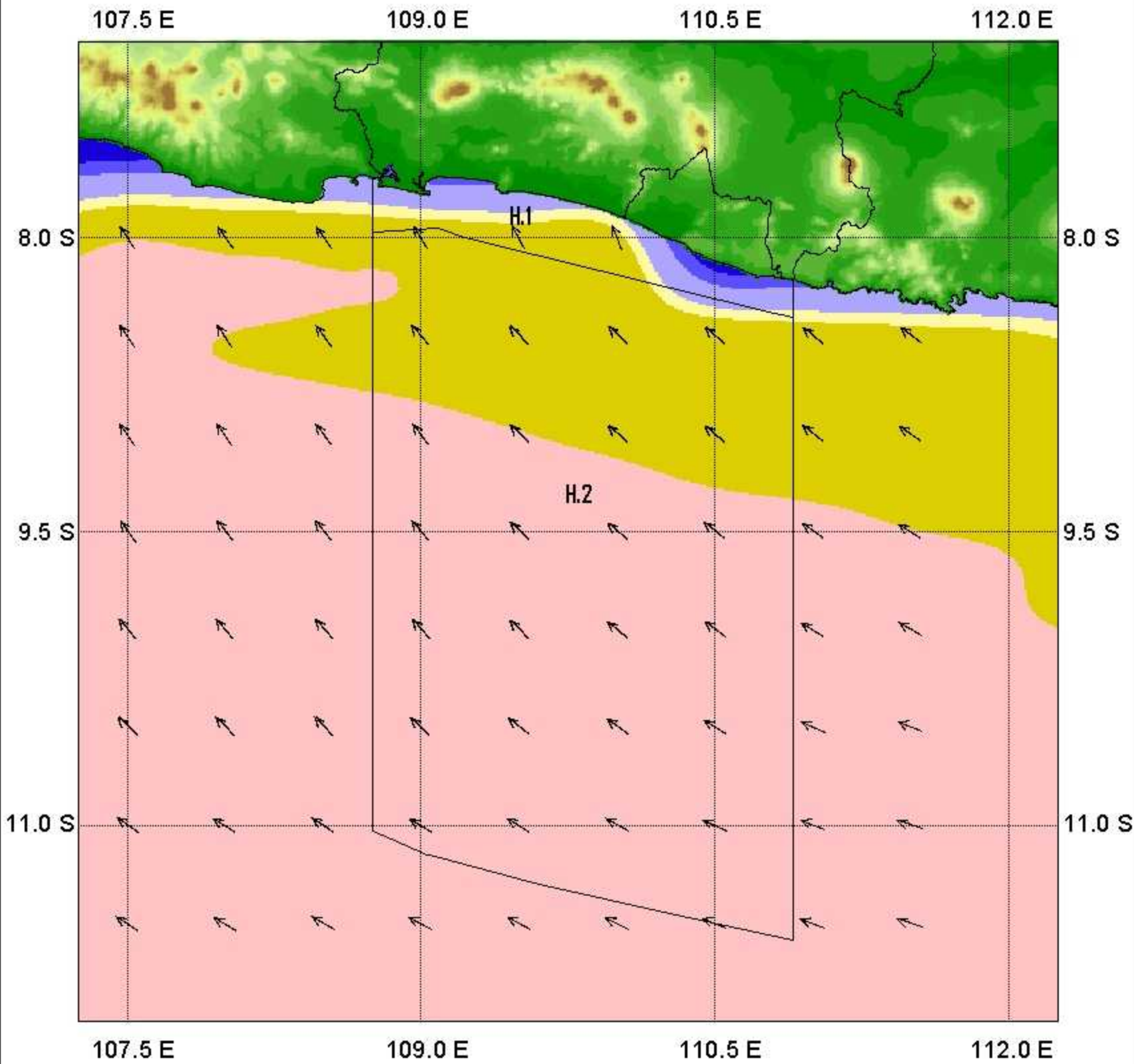
H.2 Sam. Hindia selatan Jawa Tengah



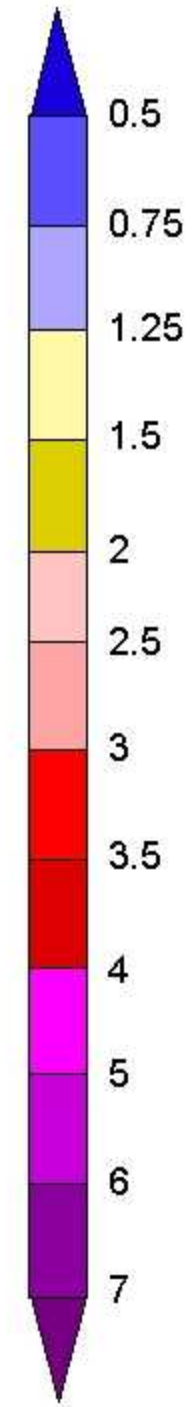
AVE. TOTAL WAVE

MONTHLY ANALYSIS

JUL 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

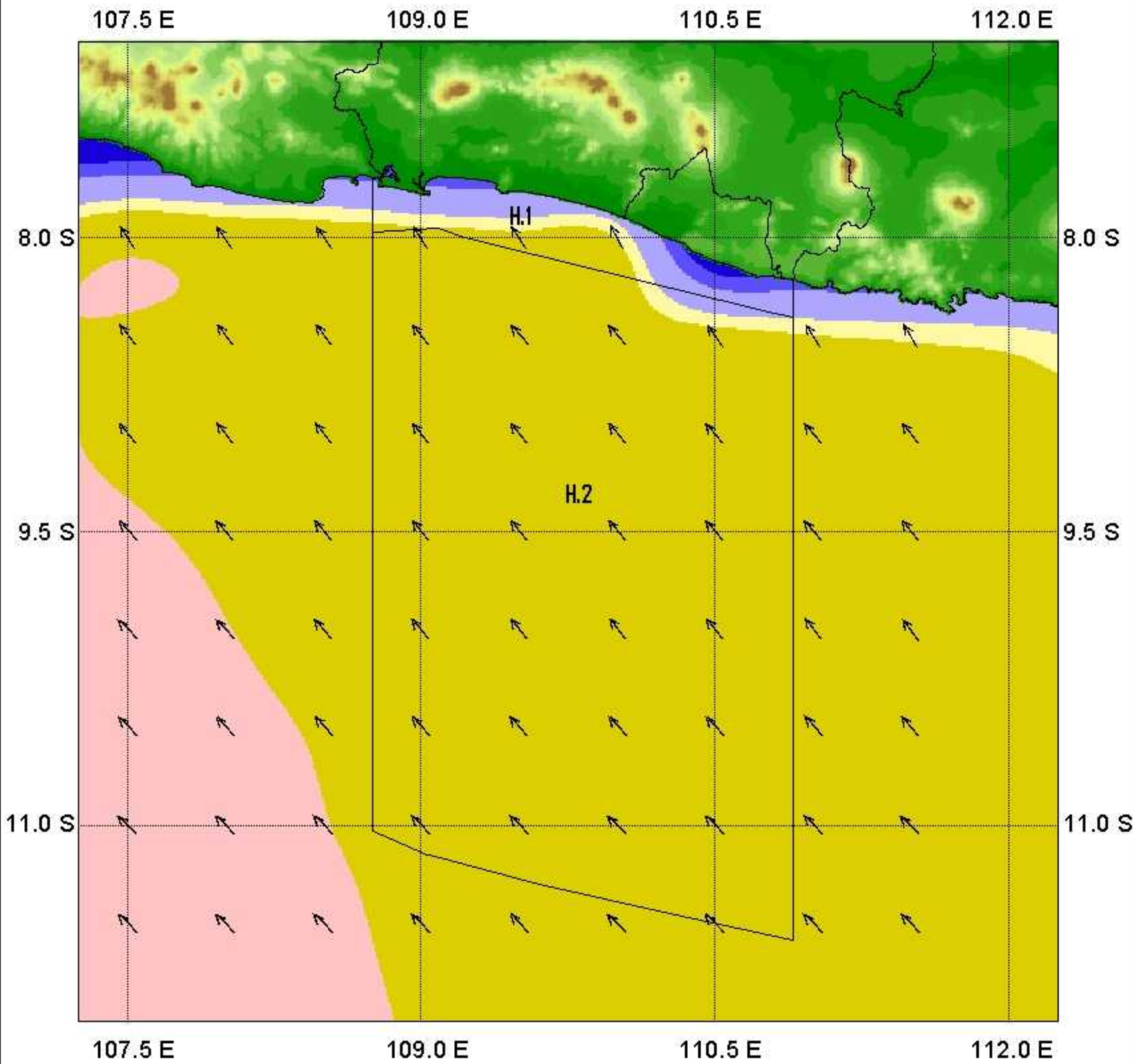
H.2 Sam. Hindia selatan Jawa Tengah



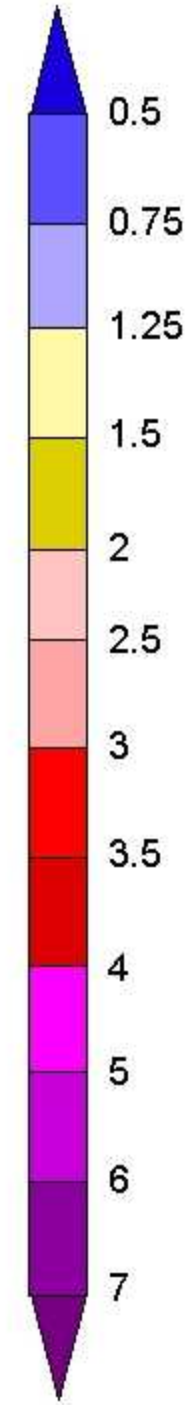
AVE. TOTAL WAVE

MONTHLY ANALYSIS

AUG 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

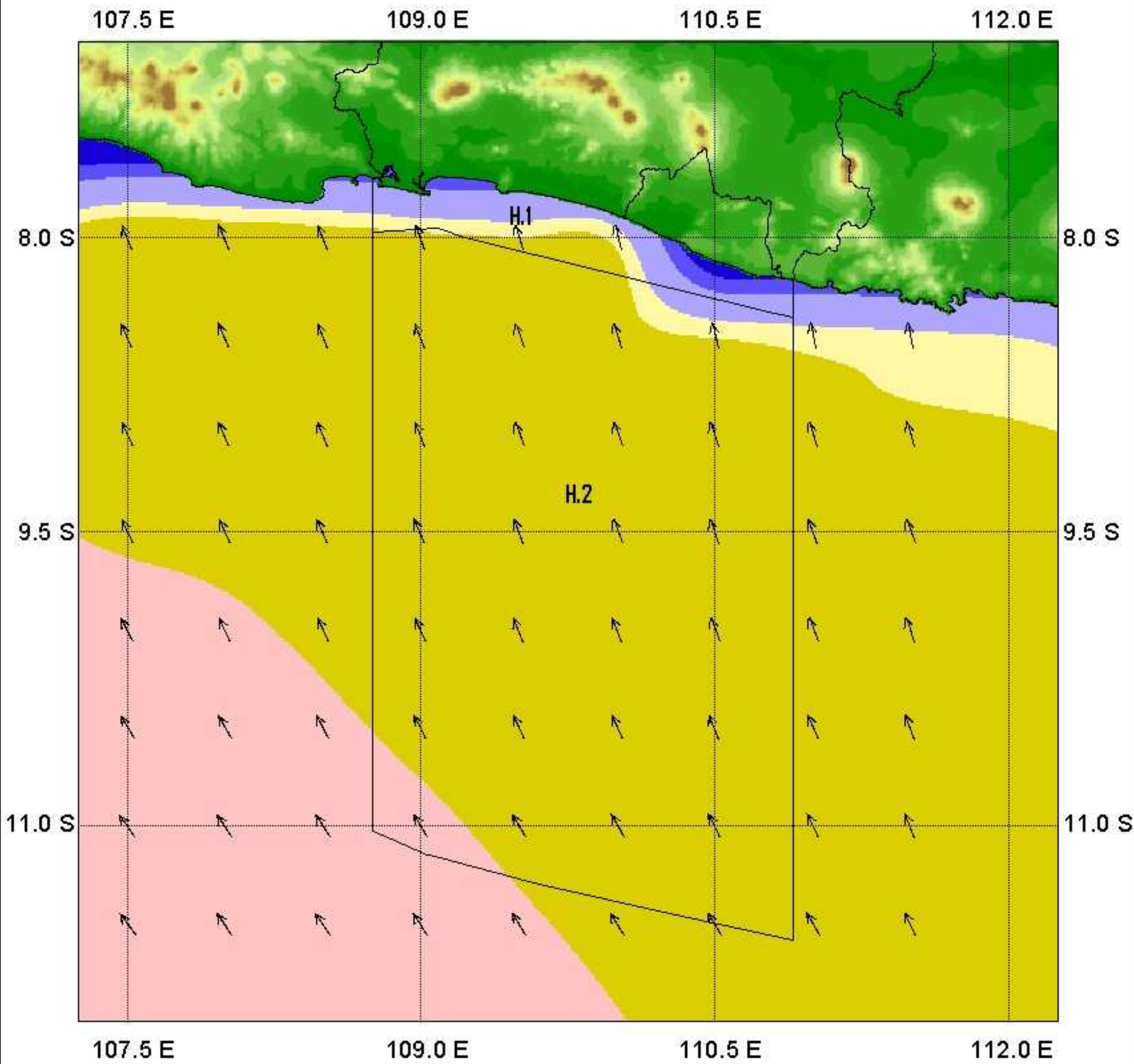
H.2 Sam. Hindia selatan Jawa Tengah



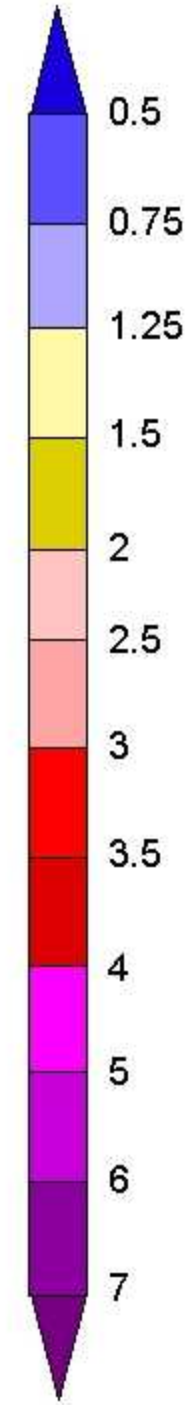
AVE. TOTAL WAVE

MONTHLY ANALYSIS

SEP 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

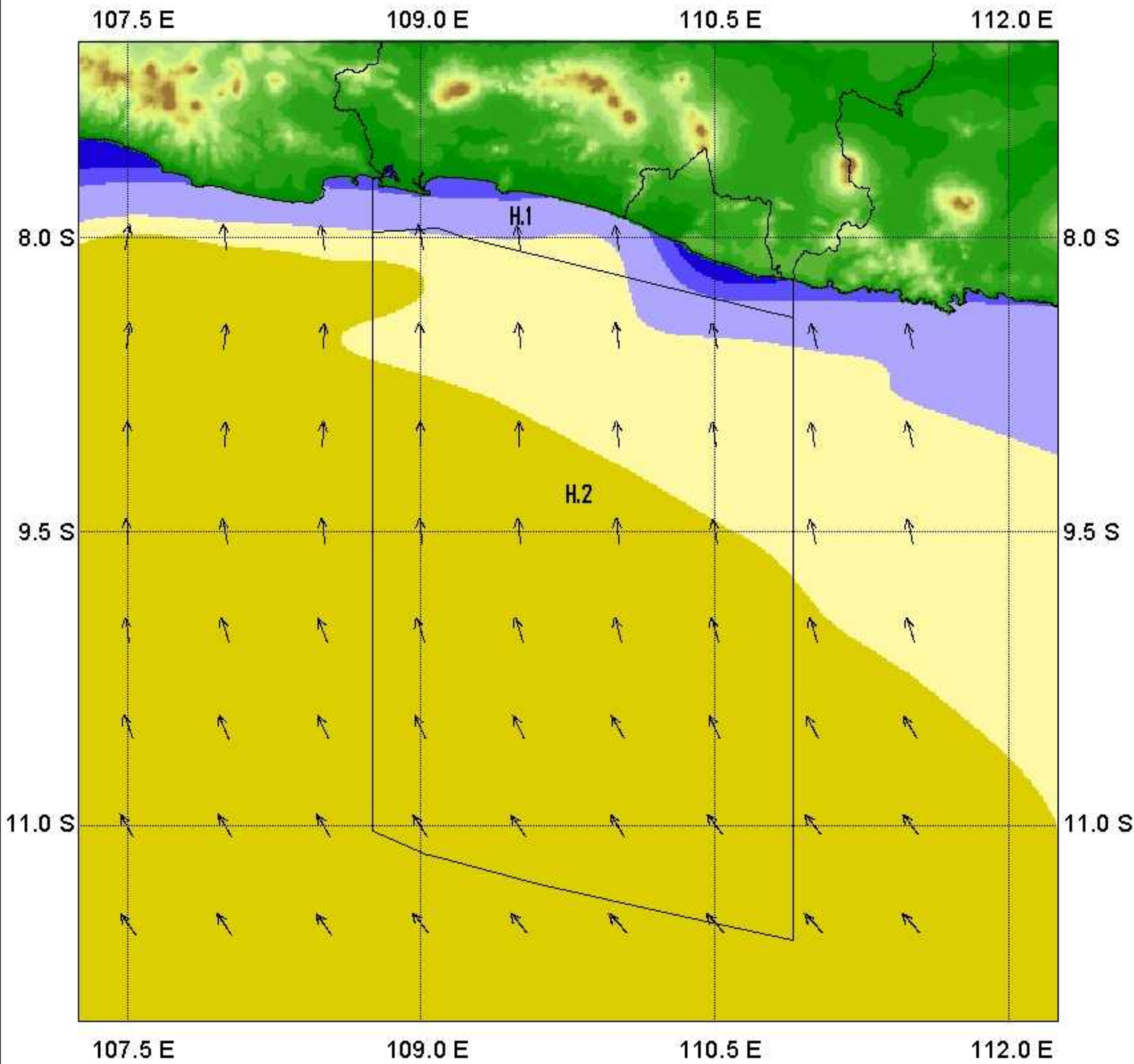
H.2 Sam. Hindia selatan Jawa Tengah



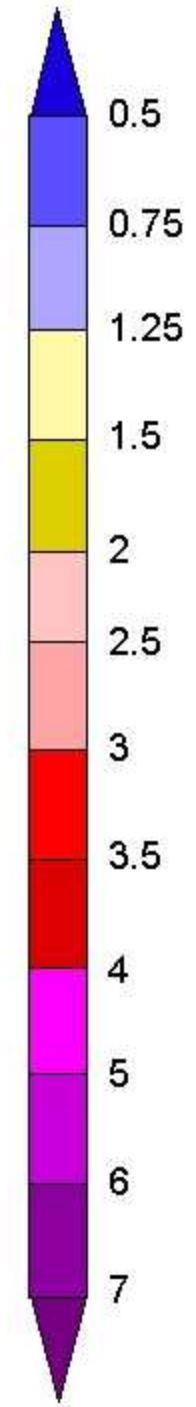
AVE. TOTAL WAVE

MONTHLY ANALYSIS

OCT 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

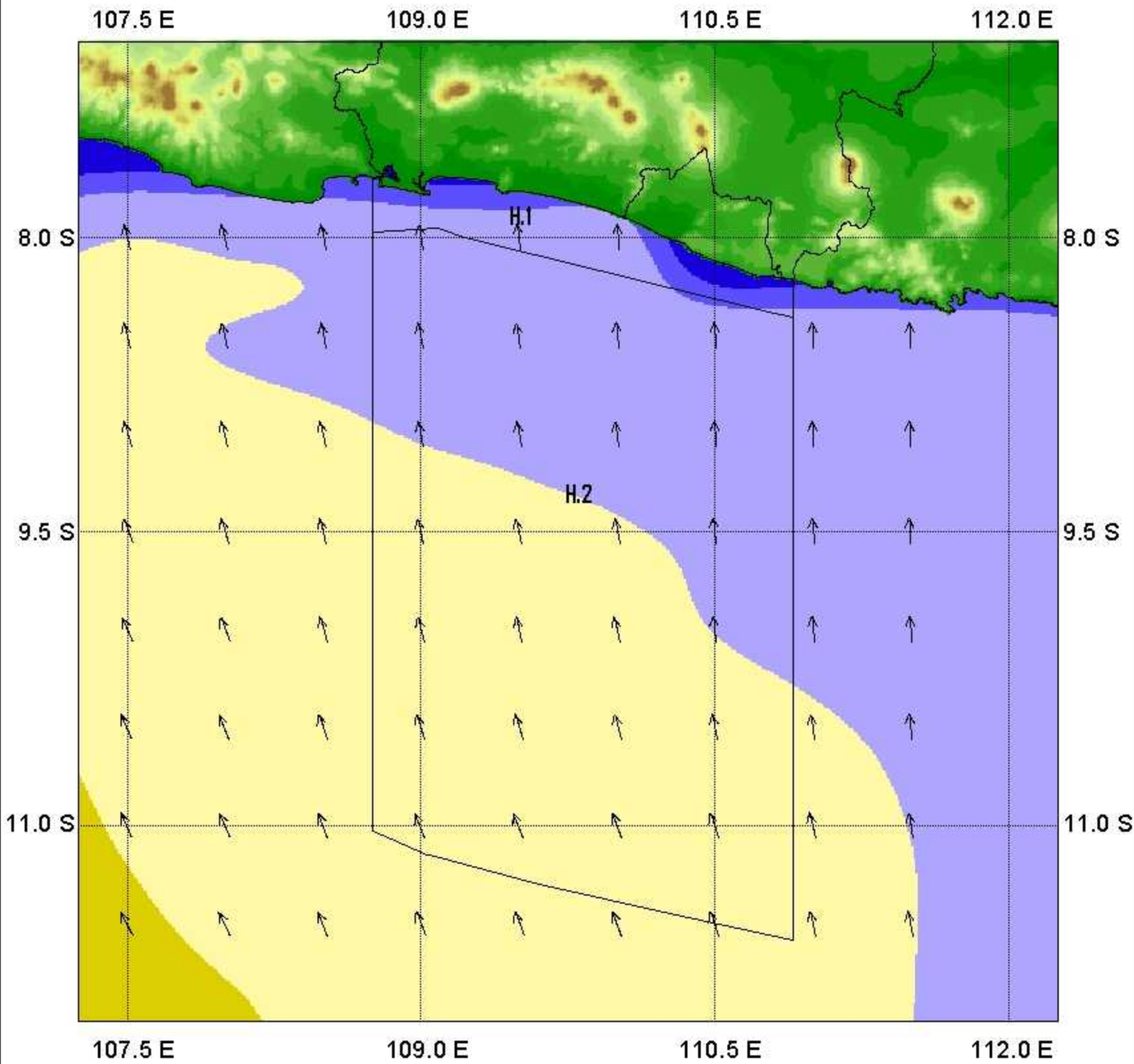
H.2 Sam. Hindia selatan Jawa Tengah



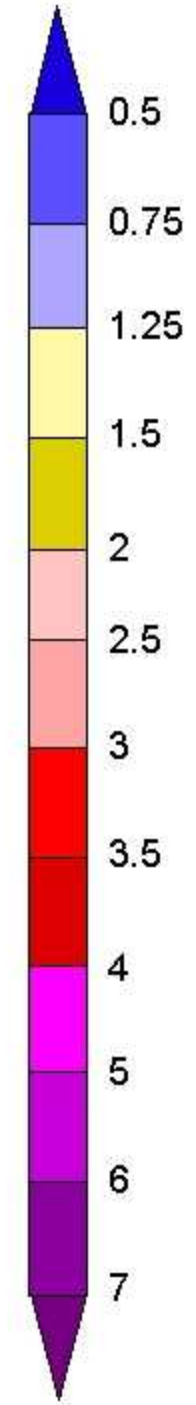
AVE. TOTAL WAVE

MONTHLY ANALYSIS

NOV 2016



Significant Height (m)



↑ : Primary Wave Direction

H.1 Perairan selatan Jawa Tengah

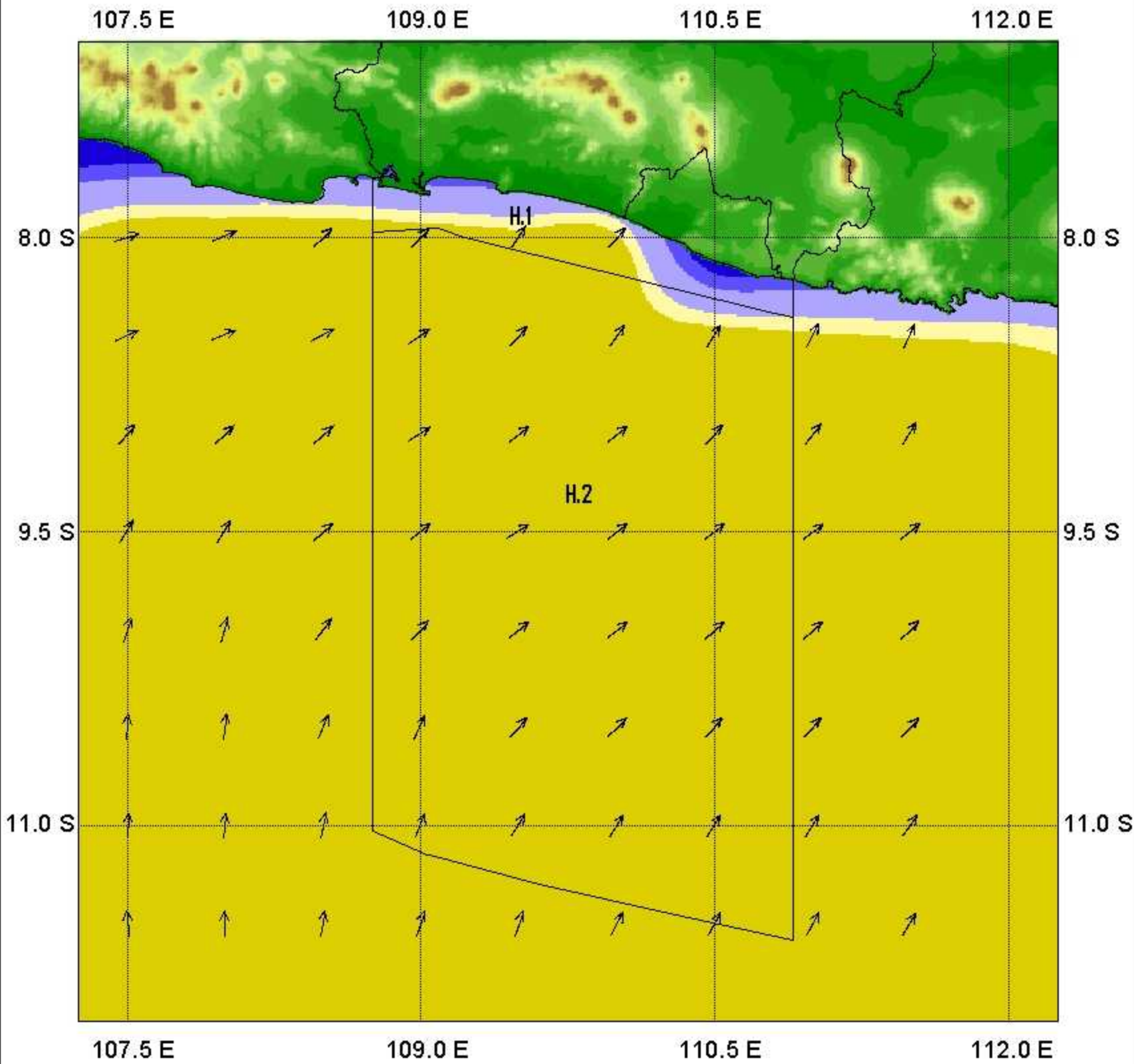
H.2 Sam. Hindia selatan Jawa Tengah



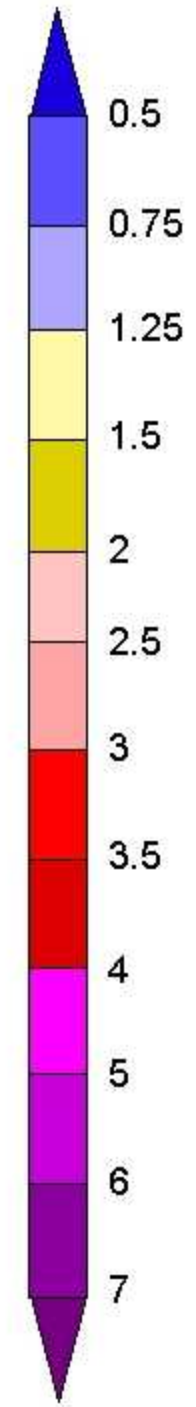
AVE. TOTAL WAVE

MONTHLY ANALYSIS

DEC 2016



Significant Height (m)



↑ : Primary Wave Direction

[H.1] Perairan selatan Jawa Tengah

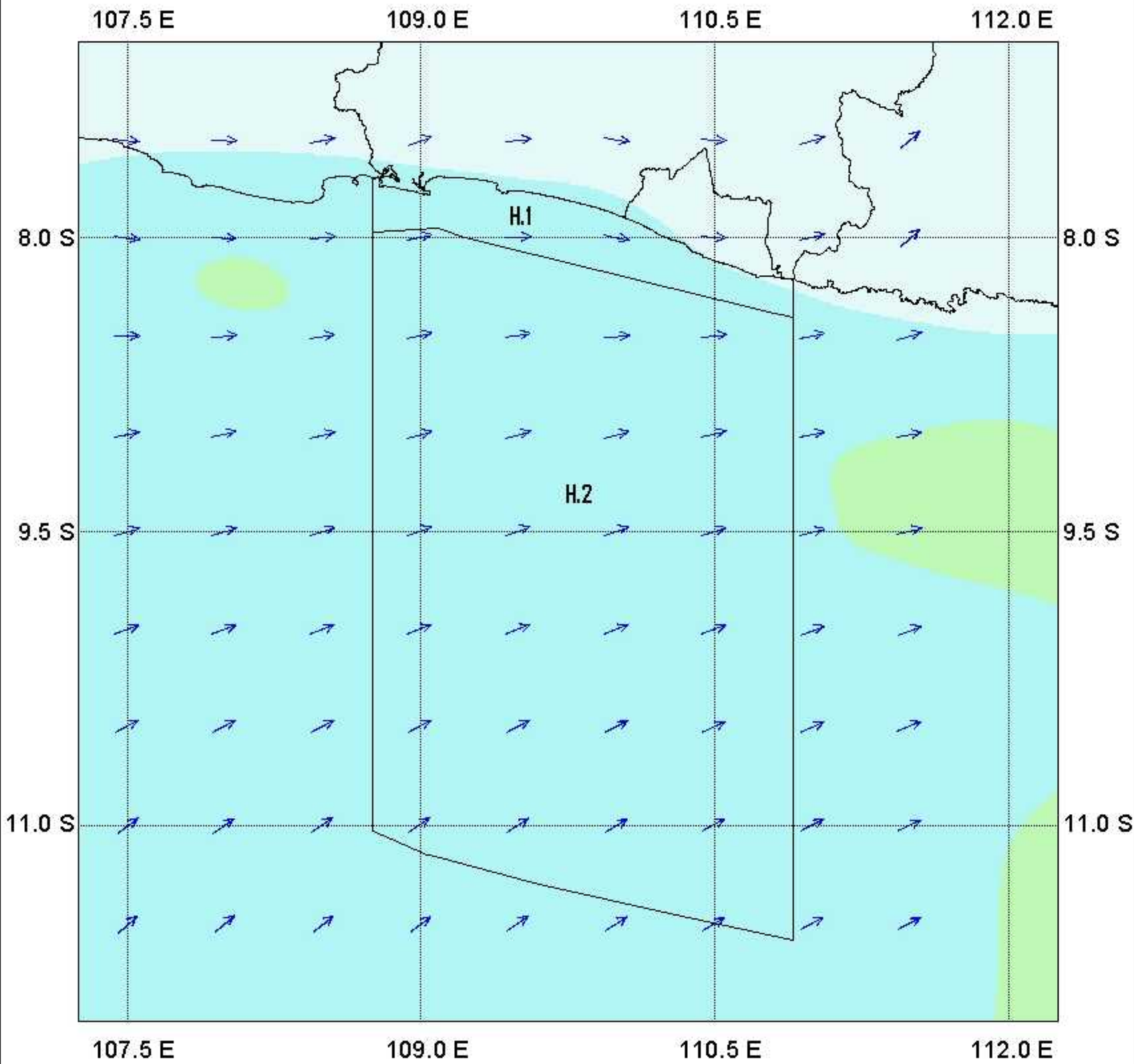
[H.2] Sam. Hindia selatan Jawa Tengah



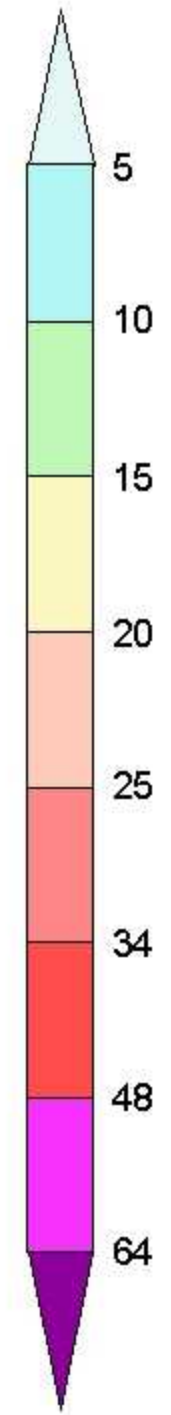
AVE. 10M WIND

MONTHLY ANALYSIS

JAN 2015



Wind Speed (Knot)



↑ : Primary Wind Direction

H.1 Perairan selatan Jawa Tengah

H.2 Sam. Hindia selatan Jawa Tengah