







**Keys to success** 

• Widely euryhaline (S: 5-44)

Low T torpor (no resting eggs/stages,

Polyvectic species (ballast waters,

Behavioural and feeding plasticity

Genetic variability

no diapause)

aquaculture, secondary spread)



43<sup>rd</sup> CIESM CONGRESS, PALERMO (ITALY), 14-18 OCT 2024

# First insight on molecular identification and nycthemeral vertical distribution of *Pseudodiaptomus marinus* (Copepoda: Calanioda) in Italian waters

V. Tirelli<sup>1,2\*</sup>, I. Di Capua<sup>2,3</sup>, E. Putelli<sup>1</sup>, Y. Carotenuto<sup>3</sup>, M. Uttieri<sup>2,3</sup>

<sup>1</sup>Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS, Via A. Piccard 54, 34151Trieste, Italy <sup>2</sup>NBFC – National Biodiversity Future Centre, Piazza Marina 61, 90133 Palermo, Italy <sup>3</sup>Stazione Zoologica Anton Dohrn, Villa Comunale, 80121 Naples, Italy

\* vtirelli@ogs.it

### **PSEUDODIAPTOMUS MARINUS: STORY OF AN INVASION**

## Calanoid species (1.1-1.8 mm TL) native to the Inland Sea of Japan Endemic in coastal and estuarine waters of East Asia Suitable for multigeneration rearing, candidate as food for commercial fish larvae Potential target organism for ecotoxicological and physiological studies PASSPORT NO. COUNTRY CODE **Pseudodiaptomus**

Japanese

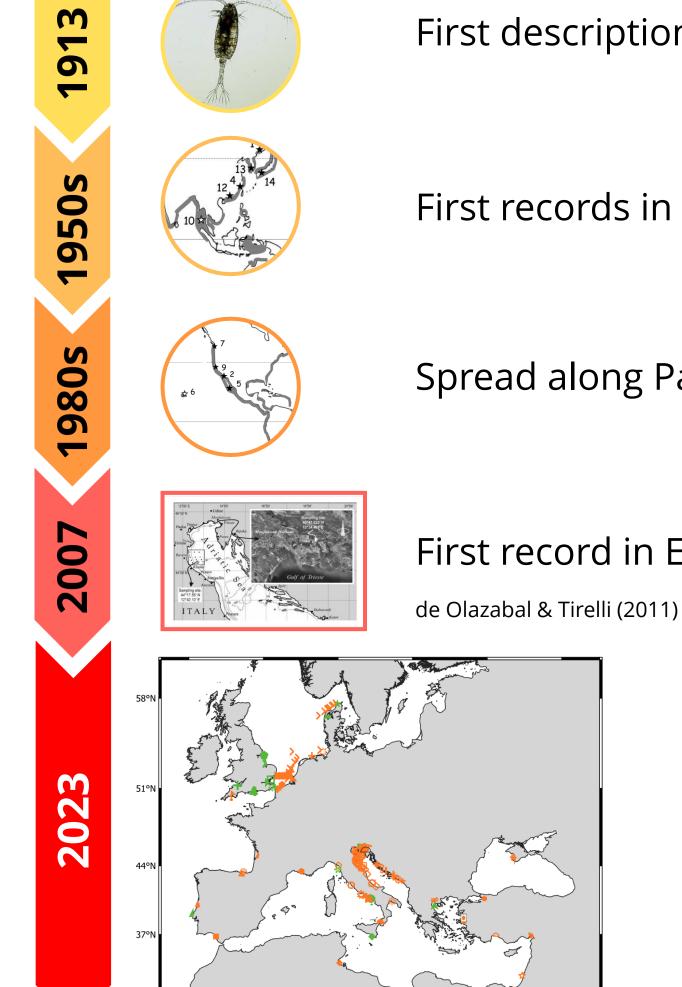
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PLACE OF BIRTH

DATE OF ISSUE 01/01/2020 AUTHORITY

DATE OF EXPIRY 01/01/2030SIGNATURE

**Inland Sea** 



First description (Inland Sea of Japan)

First records in Asian countries

Spread along Pacific US coast

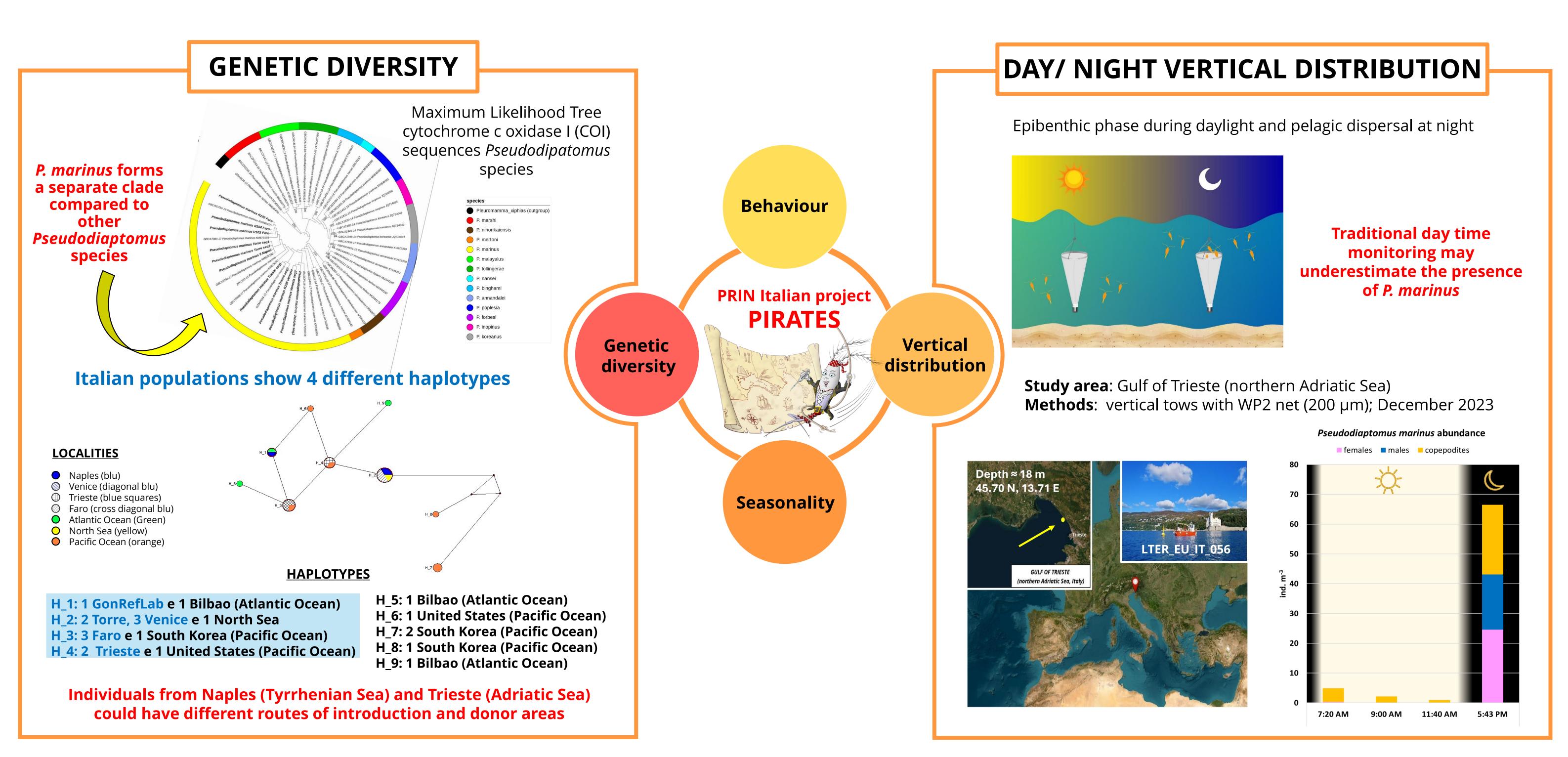
First record in European waters: Adriatic Sea The presence of *P. marinus* is now verified in eight out of the ten MSFD

subregions (Uttieri et al. 2023) and the species has recorded a fast spreading in European and neighbouring waters, with a process that is still ongoing

P. marinus is recognised as one of the 26 top-priority NIS in a horizonscanning study performed at European level (Tsiamis et al. 2019)

Uttieri et al. 2020 presented the manifesto of the ICES WGEUROBUS - Working Group "Towards a EURopean OBservatory of the non-indigenous calanoid copepod Pseudodiaptomus marinUS": join us!

# PIRATES - *Pseudodiaptomus marinus* blo-ecological tRAits through mulTidisciplinary approachES



### References

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