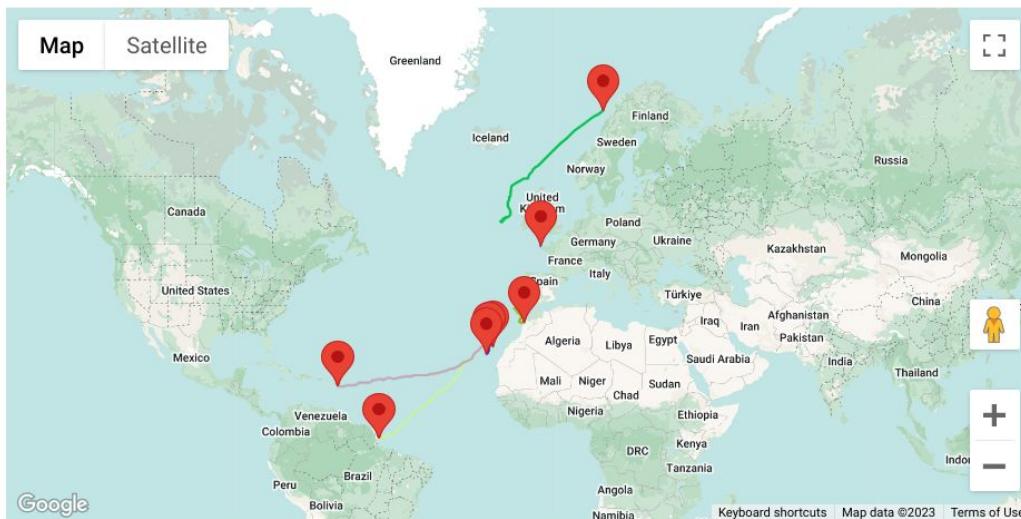




iFADO Project (Innovation in the Framework of the Atlantic Deep Ocean)



Toggle Boats:

Seoltóir Na Gaillimhe (Galway Sailor)

KES Kraken

TUGA da Costa Azul

iFADO I

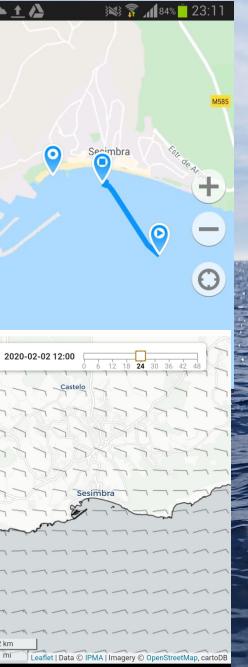
iFADO II (buche salado)

Korrigan

iFADO III (buche salado II)

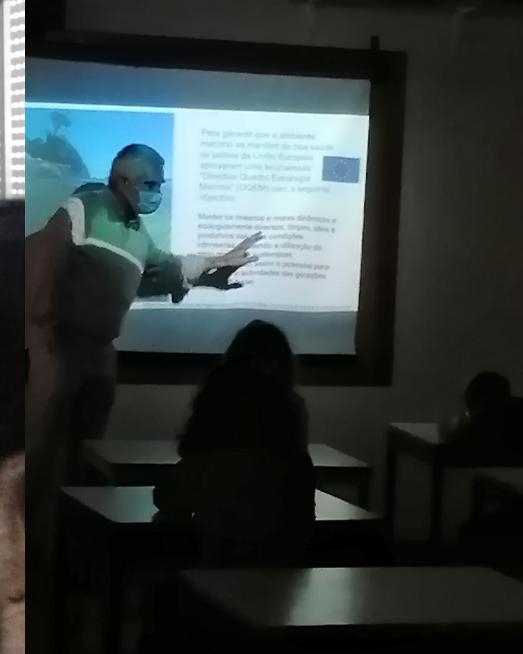
iFADO IV (El Hierro - Mar, Salitre y Lava)





2020-02-02







Bibliotecas Escolares

Agrupamento de Escolas de Sampaio

<https://aesampaio.pt/bib/?p=1774>

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Projeto iFADO na EBCastelo

■ Abril 13, 2021 ■ Luis Varela



[FACEBOOK](#)



Biblioteca Voadora

[CATÁLOGOS ONLINE](#)

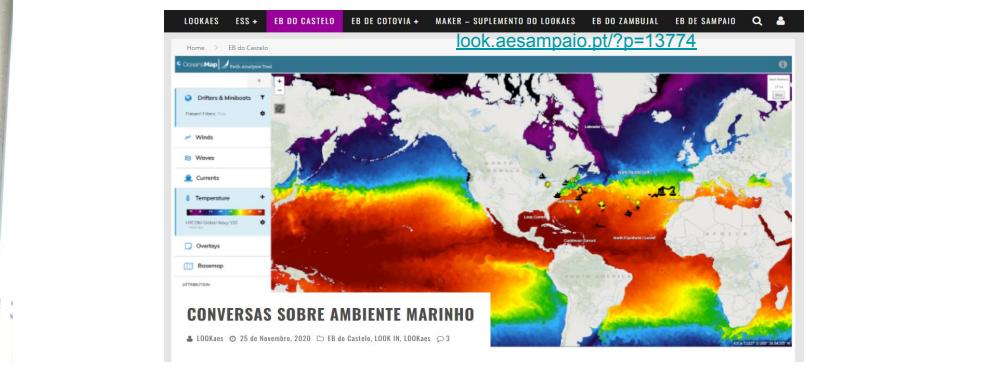
Escola Básica do Castelo

Escola Secundária de Sampaio

[PROJETOS](#)

Ler + Mar

Projeto iFADO



A **Escola Básica do Castelo** tem sido palco de conversas sobre **os oceanos** durante este ano letivo (ver notícias publicadas [aqui](#) e [acolá](#)). No dia 25 de maio, o **oceanógrafo Paulo Oliveira** do IPMA, membro da equipa do projeto **iFADO**, voltou à nossa escola para celebrarmos um evento que envolve os alunos da turma das



4

"Quem sabe para onde vou ?" lançamento do barco iFADO TUGA

No dia 27 de Julho, reuniram-se alguns colegas do 6º G da Escola Básica do Castelo, na Praia do Ouro, para lançarmos o nosso barco iFADO TUGA ao mar.

Partimos na barca "Amor ao ofício" e durante a viagem fizemos um Jogo para tentar adivinhar para onde o barco ia conforme o vento" (Catarina)

O "TUGA" surgiu da colaboração entre a EB do Castelo e o Projecto iFADO, uma iniciativa Financiada pelo Programa Interreg Espaço Atlântico da União Europeia. O Projecto visa desenvolver metodologias de monitorização do meio marinho necessárias para a implementação da Diretiva-Quadro Estratégia Marinha (DQEM). A abordagem consiste em combinar a monitorização tradicional com tecnologias de ponta por forma a reduzir os custos da recolha de dados. Entre as metodologias propostas destacam-se

"Batizamos" o nosso barco "iFADO Tuga da Costa Azul", pintámos-lhe a nossa terra Sesimbra e pensámos em mensagens e objetos que nos definissem.

Entretanto chegou o dia!

E os alunos do 6º G deixaram o seu testemunho:

"Estávamos entusiasmados com o passeio na barca típica de Sesimbra "Amor ao ofício" do senhor Branquinho que rumou ao largo de Sesimbra e com direito à passagem pela praia do Ribeiro de Cavallo e pelas grutas.

Um dos objetivos do projeto era que o pequeno barco chegassem a outro país, para isso contamos com a ajuda de um mapa e criamos rotas imaginárias e tentámos adivinhar qual o local de destino." (Ana)



LIGA BONS AMIGOS DE SESIMBRA
0 SESIMBRENSE



Updates:

— 1st Voyage

+ July 27, 2021 - Symbolic launch

+ March 17, 2022 - Launched at sea

Plans changed and the miniboat was transported to the R/V VIZCONDE DE EZA.

Then, on March 17 at 9:39GMT, Miniboat *TUGA da Costa Azul* was launched by the crew of the VIZCONDE DE EZA and tooks some pictures to share:



— March 17, 2022 - Launched at sea

Miniboat *TUGA da Costa Azul* was loaded aboard the *R/V Miguel Oliver* to be launched during a fisheries assessment survey by IPMA as part of the iFADO project in March. The survey will collect samples over the Iberian continental shelf starting from the southern coast (Cádiz). The idea is to launch the miniboat off Sagres – the SW tip of the Peninsula (also with a strong historical meaning in the Portuguese Maritime quest).





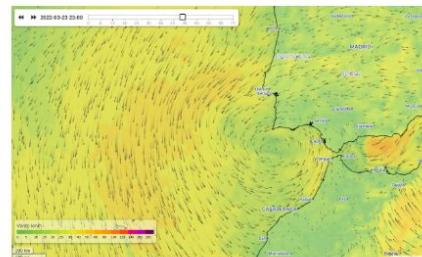
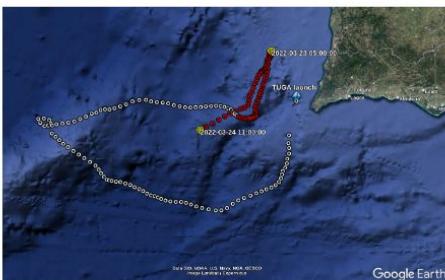
Updates:

— 1st Voyage

+ March to April, 2022 - Travels to and Landing in Morocco

March 22, 2022 Update

Paulo writes, "After traveling offshore for more than 100 miles for 3 days, the miniboat started its movement back to the coast, heading to the position where it was released on the 17th March (white dots on the map below). The forecasted winds should make it progress to the north during today, passing just 15 miles offshore the launching position this afternoon! According to the predictions from a simple transport model, based on the relationship between the miniboat speed and the winds (red dots), the sudden change in wind direction tomorrow morning will lead to a new reversal in the path direction and the TUGA should sail again to the deep ocean. Exciting moments ahead to see how the miniboat will move around the low pressure system that will affect the Gulf of Cadiz in the next couple of days! (cf. screenshot from mf2.ipma.pt belo)"



Updates:

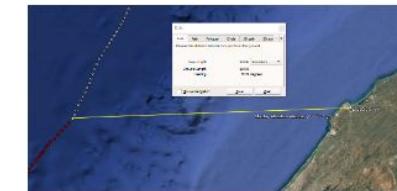
— 1st Voyage

+ March to April, 2022 - Travels to and Landing in Morocco

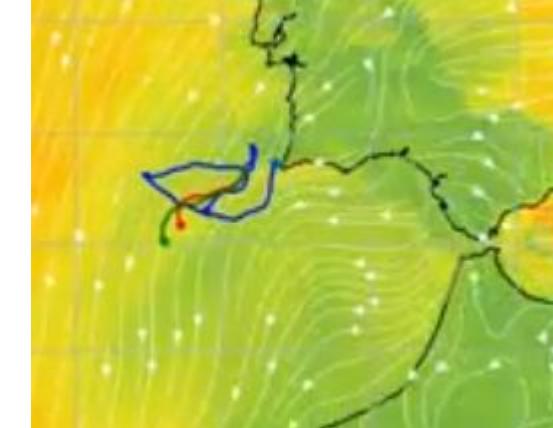
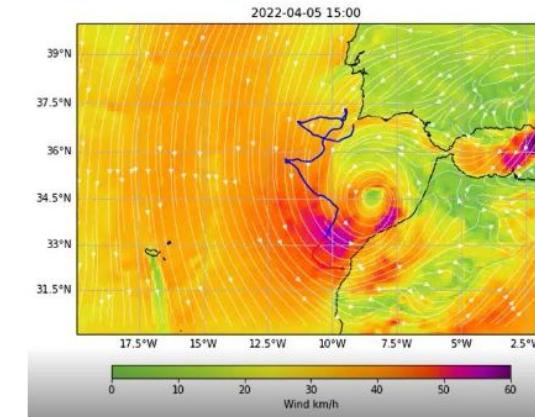


April 3, 2022 Update

Paulo writes, "In the last 2 days, the trajectory was a bit to the left of the wind, most likely due to the swell from the north, and at 4AM today it was "only" 160 km from the coast."



Refering to the image below, Paulo ran a model to try and predict the path, with blue line actual and red line is prediction. About this he said, "Being this close to the coast, TUGA will sail onshore with the strong winds associated with the low pressure system that I mentioned in the previous email, and presently is forecasted to be located north of Mazagão at noon on tuesday."



+ Code + Text



```
uboat = np.array(uboat); v  
uwind = np.array(uwind)1.5; v
```

U10_Wind

V10_Wind

+ Code + Text

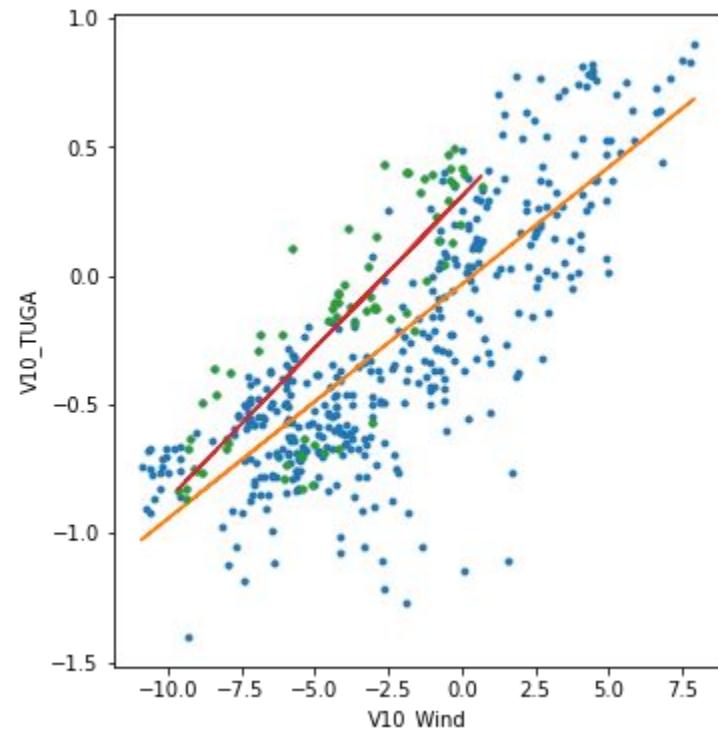
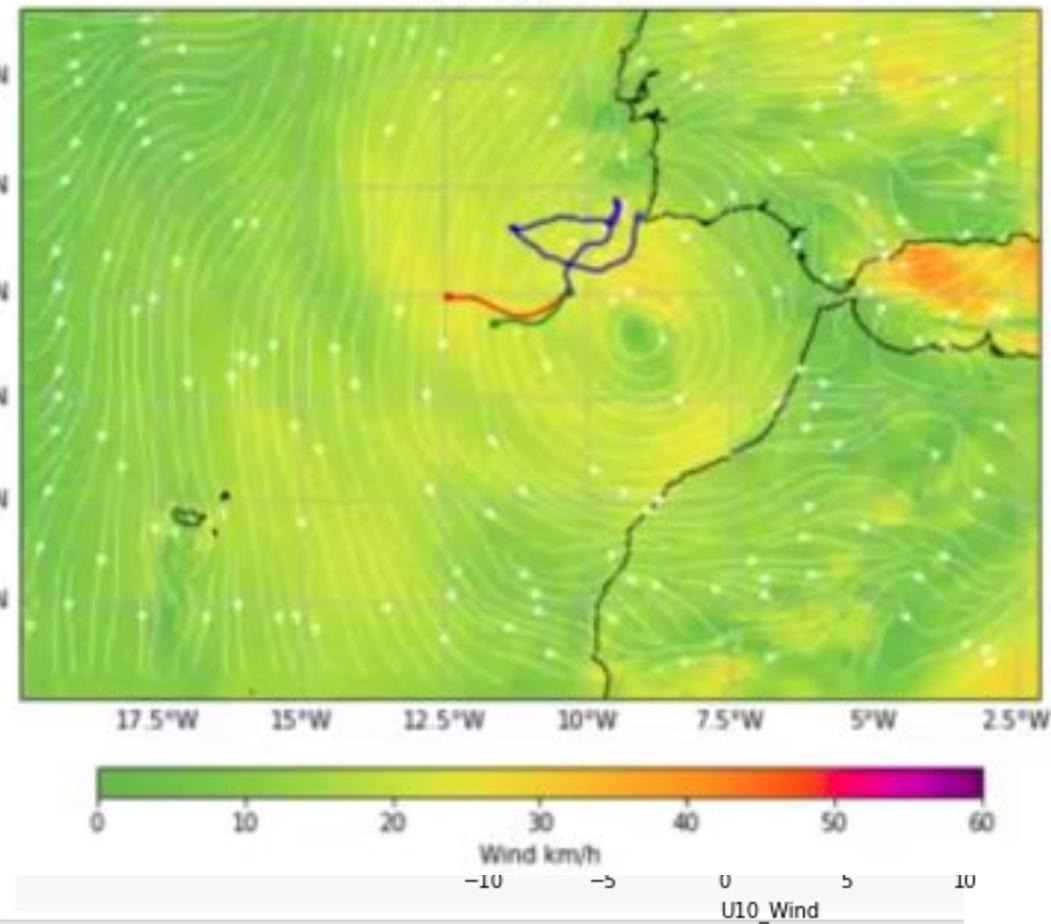
2022-03-25 15:28

iii

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...

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Updates:

- 1st Voyage

+ April 6, 2022 - Recovered in Morocco

TERÇA-FEIRA
05/04/2022

Luis Sebastião Blue Edge Oceano
Boa!! la mesmo dizer para adicionar o Francisco!! 😊
esta noite vai ser animada... 23:19

Francisco Campuzano MARETEC
eu hoje estive a ver os ventos e ainda ha alguma possibilidade de fugir da costa
olá a tod@s! :) 23:20

amanha se nao der podemos brincar um pouco com as previsões
ja tem algum contato por lá? 23:20



Viva Francisco, bem vindo ao grupo 😊 Este é o ultimo ponto de situação que o Luis partilhou

Luis Sebastião Blue Edge Oceano
esta noite vai ser animada...
se tiveres notícias do Kraken manda tb praí 23:21

Francisco Campuzano MARETEC
oki, o Kraken anda a brincar com a maré 23:21

Francisco Campuzano MARETEC



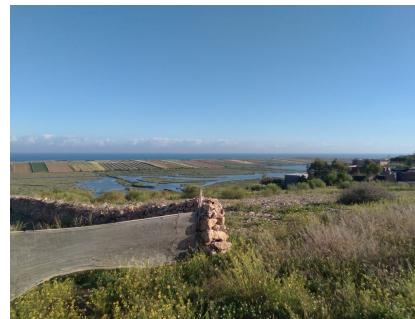


Updates:

- 1st Voyage

— April 6, 2022 - Recovered in Morocco

By 19:26 GMT on 4/6/2022 near El Beddouza, Morocco, the miniboat **TUGA de Costa Azul** made **landfall** after 20 days at sea!



It was shortly recovered by someone nearby as we could see from the GPS reports.

April 7, 2022

Miniboat enthusiast Luis Sebastiao of the Blue School PT (Escola Azul) and Instituto Superior Técnico / ISR-Lisboa team was also very involved in this project, especially when it became evident that the boat would head to Morocco. Luis previously coordinated another miniboat recovery in Morocco in 2019 (Sesimbra a Bordo) with friend Mohamed Hadani who is a Geologist and University Professor.



'He sold his boat and asked himself, "What am I going to do for fun now?" '

(Dick Baldwin eu.seacoastonline.com/story/)

