

# The filaos line, Senegal's answer to Niayes strip coastal erosion

Sentinel-1 CSAR IW acquired on **04 January 2020** at 19:18:24 UTC  
Sentinel-2 MSI acquired on **13 January 2020** at 11:34:31 UTC

Author(s): Sentinel Vision team, VisioTerra, France - [svp@visioterra.fr](mailto:svp@visioterra.fr)

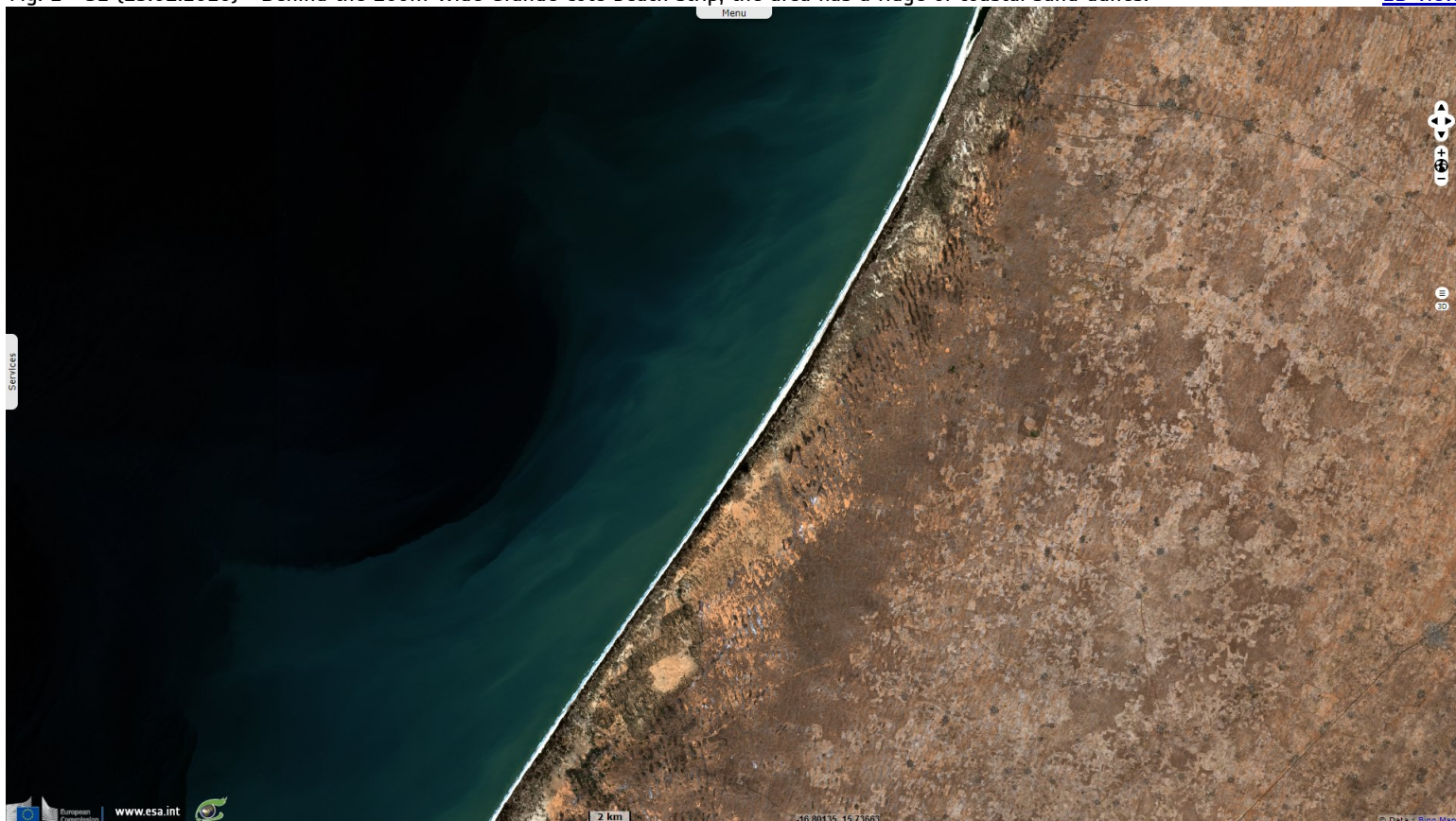
Keyword(s): Coastal, forestry, wind erosion, agriculture, beach, food security, Senegal.

[2D Layerstack](#)

Fig. 1 - S2 (13.01.2020) - Niayes is a 25-30 km wide strip of land along the Atlantic coast between Dakar, Senegal & Nouakchott, Mauritania. [2D view](#)



Fig. 2 - S2 (13.01.2020) - Behind the 100m-wide Grande Côte beach strip, the area has a ridge of coastal sand dunes. [2D view](#)



Niayes is vital to the economy of Senegal, being used for fishing, aviculture and producing 80% of Senegal's vegetables, fruit and rice.



Fig. 3 - S2 (13.01.2020) - Belts of salt-tolerant filaos have been planted from Dakar to Saint Louis to prevent wind erosion of the soil.

[2D view](#)















Fig. 4 - S1 (04.01.2020) - The filaos line protects the coastland by stabilising the dunes & shields the farmland at east from the wind.

[2D view](#)



*The views expressed herein can in no way be taken to reflect the official opinion of the European Space Agency or the European Union.  
Contains modified Copernicus Sentinel data 2020, processed by VisioTerra.*

More on European Commission space:							
More on ESA:				<a href="#">S-1 website</a>	<a href="#">S-2 website</a>	<a href="#">S-3 website</a>	
More on Copernicus program:				<a href="#">Scihub portal</a>	<a href="#">Cophub portal</a>	<a href="#">Inthub portal</a>	<a href="#">Colhub portal</a>
More on VisioTerra:				<a href="#">Sentinel Vision Portal</a>	<a href="#">Envisat+ERS portal</a>	<a href="#">Swarm+GOCE portal</a>	<a href="#">CryoSat portal</a>