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**Structure and spatio-temporal dynamics of the artisanal small-scale fisheries at the future MPA of “Taza” (Algerian coast, SW Mediterranean)**

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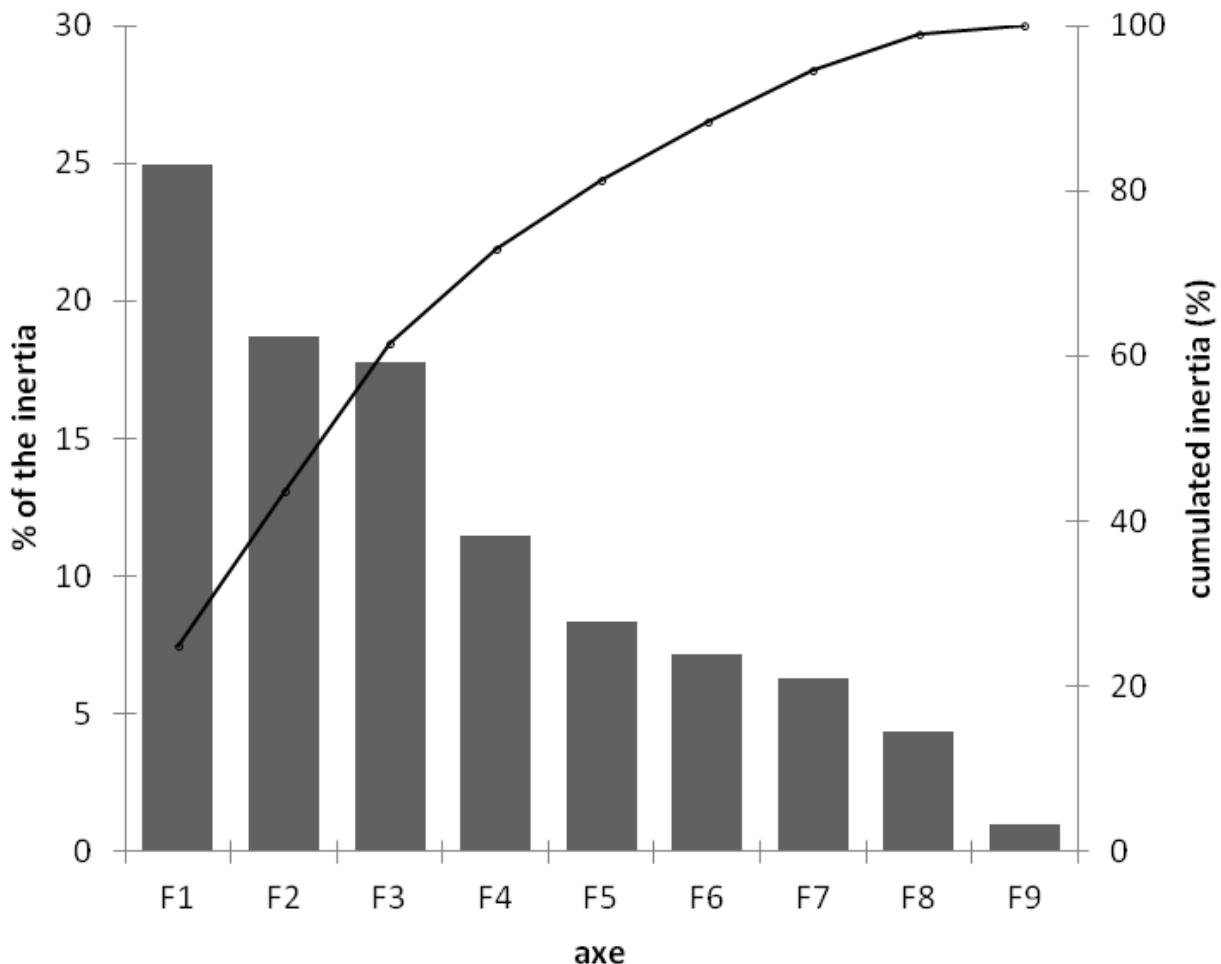
BOUBEKRI, I., CAVEEN, A. J., DJEBAR, A. B., AMARA, R., & MAZUREK, H. (2018). Structure and spatio-temporal dynamics of the artisanal small-scale fisheries at the future MPA of “Taza” (Algerian coast, SW Mediterranean). *Mediterranean Marine Science*, 19(3), 555–571. <https://doi.org/10.12681/mms.16192>

## Supplementary Data

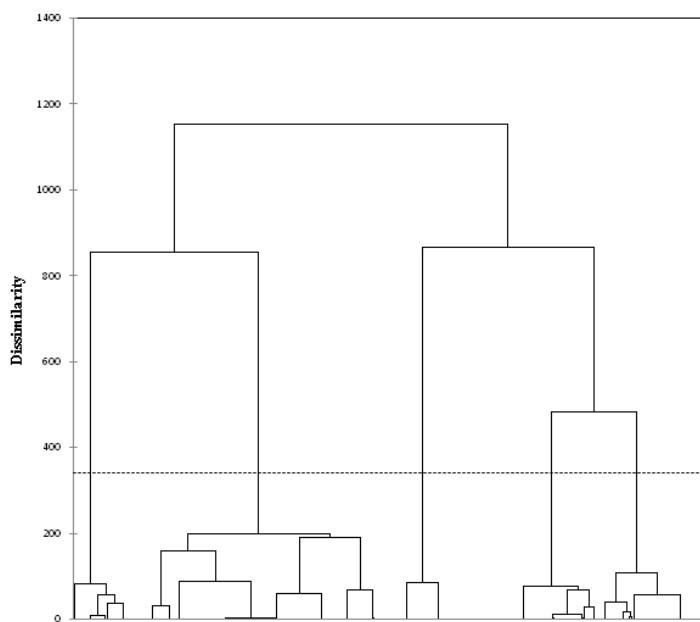
### Structure and spatio-temporal dynamics of the artisanal small-scale fisheries at the future MPA of “Taza” (SW Mediterranean)

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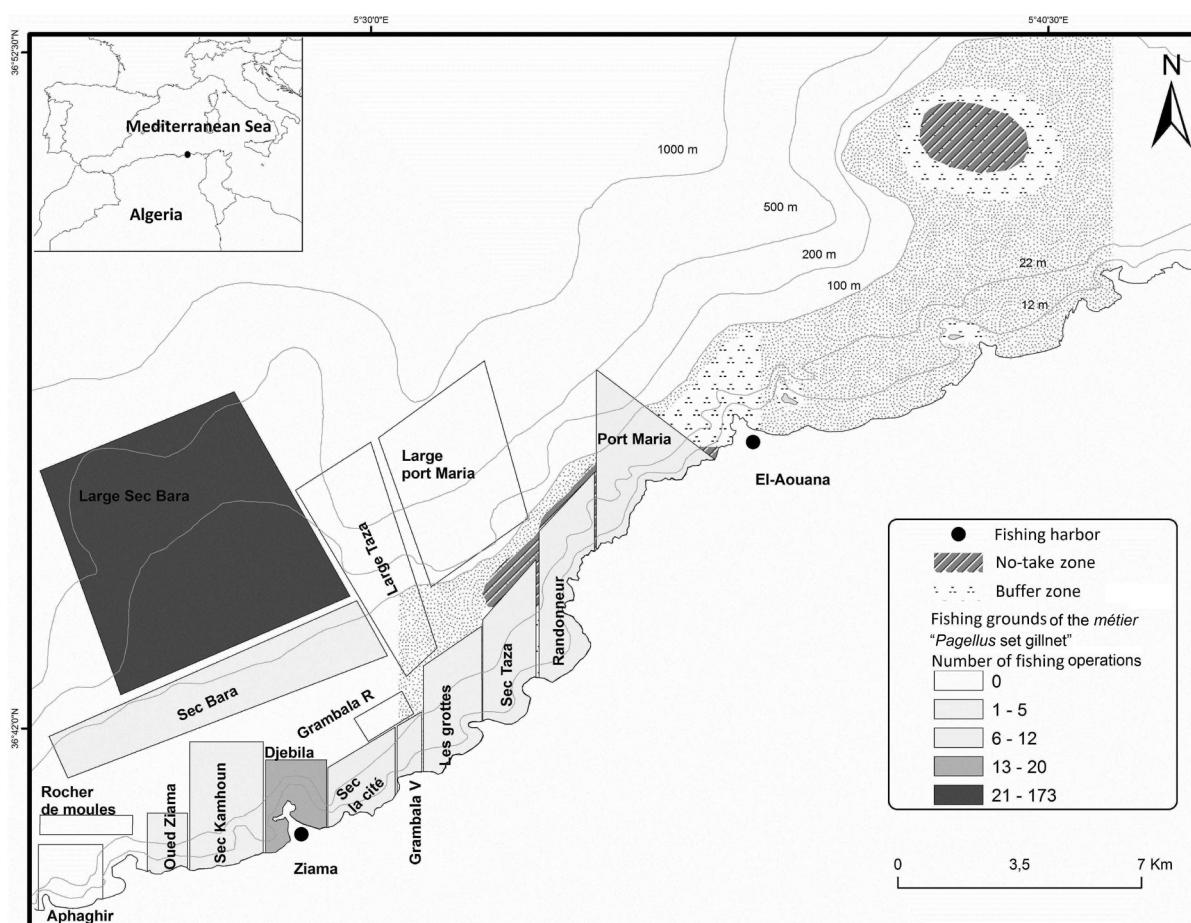
*Mediterranean Marine Science, 2018, 19 (3)*



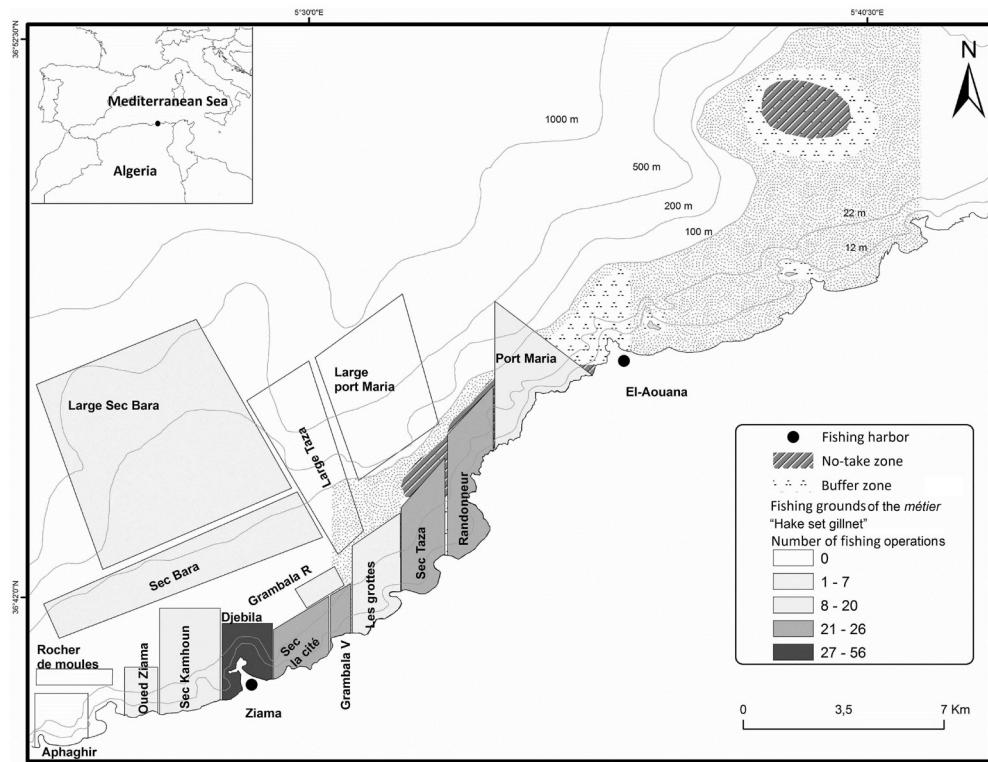
**Fig. S1:** Scree plot of the eigenvalues in % of inertia and in % of cumulated inertia for the 9 axes (F1 - F9) characterizing the dataset.



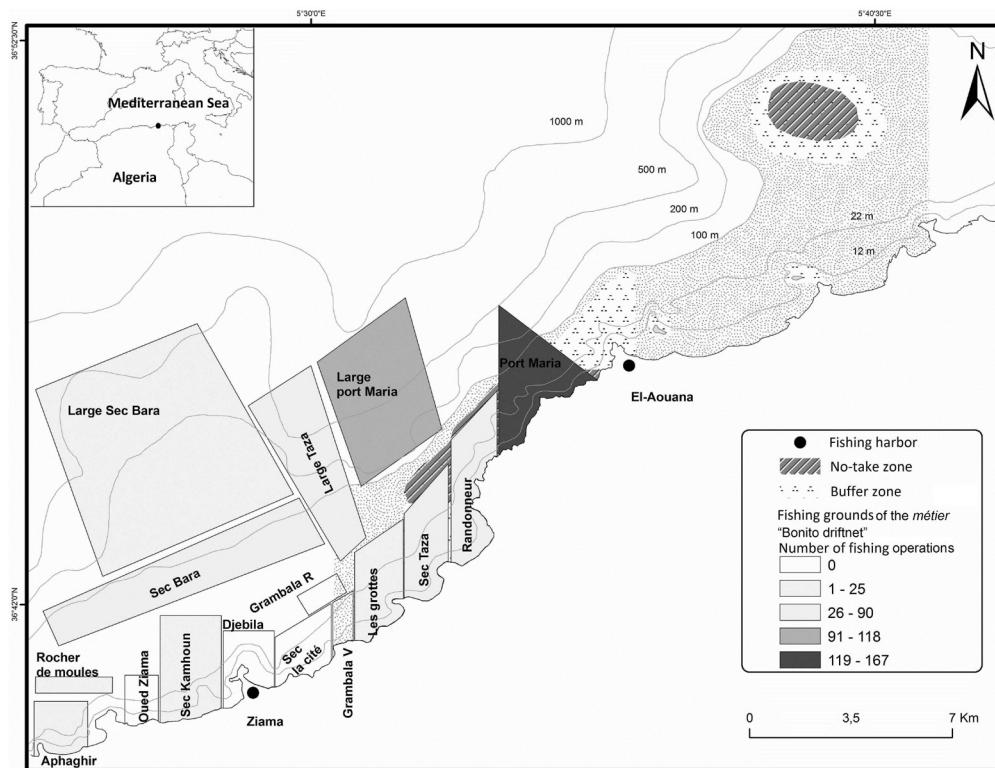
**Fig. S2:** Dendrogram of the cluster classification of fishing trips and partition level (indicated by the dashed line). Five clusters are obtained from multivariate analysis.



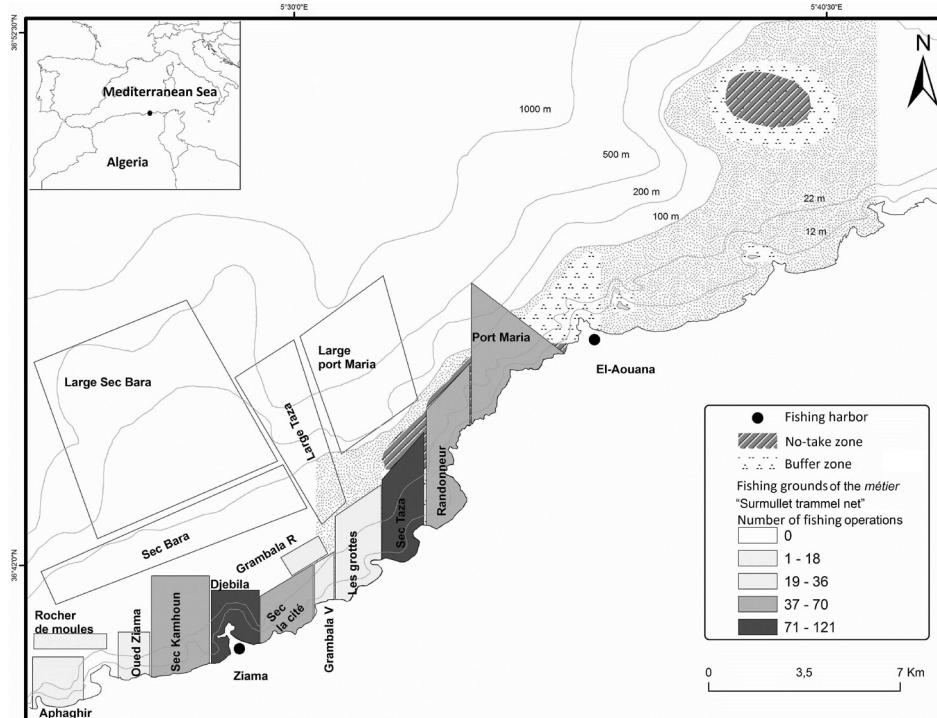
**Fig. S3:** Spatial distribution of “*Pagellus* set gillnet” fishing effort. Effort was represented on the basis of the number of fishing operations carried out in the different fishing grounds.



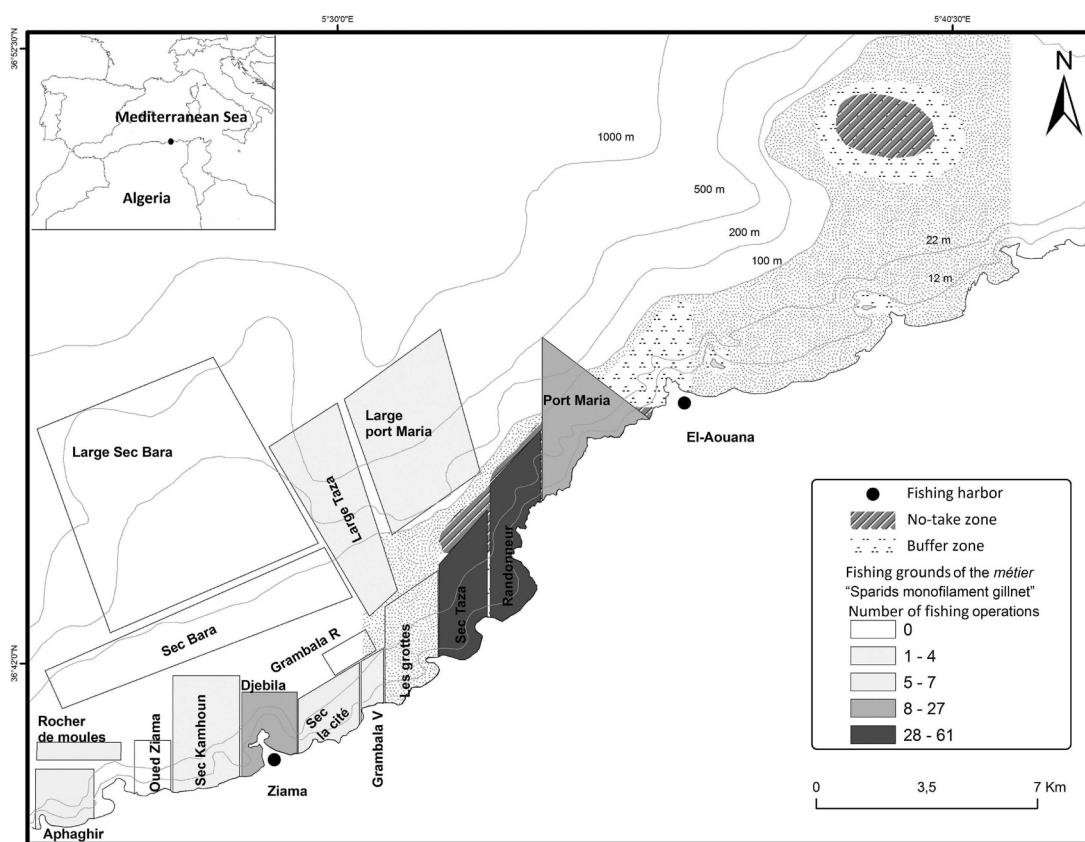
**Fig. S4:** Spatial distribution of “Hake set gillnet” fishing effort. Effort was represented on the basis of the number of fishing operations carried out in the different fishing grounds.



**Fig. S5:** Spatial distribution of “Bonito driftnet” fishing effort. Effort was represented on the basis of the number of fishing operations carried out in the different fishing grounds.



**Fig. S6:** Spatial distribution of “Surmullet trammel net” fishing effort. Effort was represented on the basis of the number of fishing operations carried out in the different fishing grounds.



**Fig. S7:** Spatial distribution of “Sparids monofilament gillnet” fishing effort. Effort was represented on the basis of the number of fishing operations carried out in the different fishing grounds.



**Table S4.** Characterization of clusters resulting from the HCA (Hierarchical Cluster Analysis). For each category of each variable, the proportion of fishing operations by cluster including the category (in %) is indicated. In bold, the categories for which the test of the difference in proportion between the class and all 1613 fishing operations is significant (p-value <0.05). On a gray background, the active and illustrative variables characterizing each cluster. n.s: not significant.

	Métier 1. <i>Pagellus</i> set gillnet	Métier 2. Hake set gillnet	Métier 3. Bonito driftnet	Métier 4. Surmullet trammel net	Métier 5. Sparids monofilament gillnet	Total
<b>Number of fishing operations</b>	254	209	301	650	199	1613
<b>% of fishing operations</b>	15.8	12.9	18.7	40.3	12.3	100
<b>Number of boats involved</b>	13	10	18	14	6	24
Target-species	<i>Pagellus</i> spp.	<b>100.0</b>	0.0	0.0	0.0	15.8
	<i>Merluccius</i>	0.0	<b>100.0</b>	0.0	0.0	12.9
	<i>merluccius</i>					
	<i>Sarda sarda</i>	0.0	0.0	<b>100.0</b>	0.0	18.7
	<i>Mullus surmuletus</i>	0.0	0.0	0.0	<b>100.0</b>	40.3
Gear	<b>Sparids</b>	0.0	0.0	0.0	<b>100.0</b>	12.3
	Set gillnet	<b>100.0</b>	<b>100.0</b>	0.0	0.0	28.7
	Driftnet	0.0	0.0	<b>100.0</b>	0.0	18.7
	Monofilament gillnet	0.0	0.0	0.0	<b>100.0</b>	12.3
Depth	Trammel net	0.0	0.0	0.0	<b>100.0</b>	40.3
	≤25 m	<b>0.4</b>	<b>0.5</b>	<b>0.0</b>	<b>57.5</b>	<b>96.0</b>
	26 - 40 m	<b>10.7</b>	<b>26.8</b>	<b>0.0</b>	<b>42.0</b>	<b>0.4</b>
Season	>40 m	<b>88.9</b>	<b>72.7</b>	<b>100.0</b>	<b>0.5</b>	<b>3.6</b>
	Spring	<b>26.3</b>	<b>49.8</b>	<b>26.9</b>	37.3 (n.s)	37.7 (n.s)
	Summer	<b>49.7</b>	<b>0.0</b>	<b>73.1</b>	<b>28.0</b>	<b>20.1</b>
	Autumn	<b>24.0</b>	<b>1.9</b>	<b>0.0</b>	10.8 (n.s)	<b>19.6</b>
Illustrative variables	Winter	<b>0.0</b>	<b>48.3</b>	<b>0.0</b>	<b>23.9</b>	<b>22.6</b>
	Distance to the fishing port (m)	<b>≤1000 m</b>	<b>16.1</b>	<b>48.8</b>	<b>23.9</b>	<b>37.9</b>
		<b>1001 - 2000 m</b>	<b>6.3</b>	<b>29.2</b>	<b>0.3</b>	<b>27.8</b>
		<b>2001 - 4000 m</b>	<b>6.3</b>	18.2 (n.s)	<b>25.6</b>	14.9 (n.s)
Length of nets (m)	>4000 m	<b>71.3</b>	<b>3.8</b>	<b>50.2</b>	<b>19.4</b>	<b>12.6</b>
	≤200 m	<b>18.5</b>	<b>66.0</b>	<b>24.0</b>	40.3 (n.s)	<b>97.4</b>
	201 - 400 m	<b>8.3</b>	<b>17.2</b>	29.2 (n.s)	<b>39.8</b>	<b>2.6</b>
	401 - 1000 m	<b>4.7</b>	<b>8.7</b>	<b>38.8</b>	19.9 (n.s)	<b>0.0</b>
	>1000 m	<b>68.5</b>	<b>8.1</b>	<b>8.0</b>	<b>0.0</b>	<b>0.0</b>