

## Annex B - Bird Species' status and trends report (Article 12)

### 1. Species information

1.1 Member State	Greece
1.2 Species code	A464
1.3 EURING code	462
1.4 Species scientific name	Puffinus yelkouan
1.5 Subspecific population	
1.6 Alternative species scientific name	
1.7 Common name	Μύχος
1.8 Season	Breeding (B)

### 2. Population size

2.1 Year or period	2013-2018
2.2 Population size	a) Unit number of pairs (p) b) Minimum 6830 c) Maximum 13200 d) Best single value
2.3 Type of estimate	Best estimate
2.4 Population size Method used	Complete survey or a statistically robust estimate
2.5 Sources	1) Gaudard C. (compiler) (2018). International Single Species Action Plan for the Yelkouan Shearwater Puffinus Yelkouan. Project LIFE 14 PRE/UK/000002. Coordinated Efforts for International Species Recovery EuroSAP. LPO/BirdLife France. Rochefort. 45p. 2) Fric, J., Πορτόλου, Δ., Ευαγγελίδης, Α., Δημαλέξης, Τ., Παπαδάς, Χ. & Ι. Νικολάου (2019). Μελέτη του πληθυσμού Μύχων (Puffinus yelkouan) στην περιοχή της Γυάρου. Συγκεντρωτική αναφορά 2015-2018. Nature Conservation Consultants (NCC) Ε.Π.Ε. & Ελληνική Ορνιθολογική Εταιρεία. 3) Portolou, D. and J. Fric (2015) Status and conservation of seabird species in Greece and the current Marine Important Bird Area network. Proceedings of the 2nd Symposium on the Conservation of Marine and Coastal Birds in the Mediterranean. Hammamet, Tunisia, 20-22 February 2015. RAC-SPA (Mediterranean Action Plan), Medmaravis and Les Amis des Oiseaux (BirdLife Tunisia). 4) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλάχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές Περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 5) Fric, J., Portolou, D., Manolopoulos, A. and T. Kastritis (2012). Important Areas for Seabirds in Greece. LIFE07 NAT/GR/000285 - Hellenic Ornithological Society (HOS / BirdLife Greece), Athens. 6) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

## Annex B - Bird Species' status and trends report (Article 12)

2.6 Change and reason for change (since previous report)

Improved knowledge/more accurate data  
Use of different method

The change is mainly due to: Improved knowledge/more accurate data

2.7 Additional information

### 3. Population trend

#### 3.1 Short-term trend (last 12 years)

3.1.1 Short-term trend Period

2007-2018

3.1.2 Short-term trend Direction

Stable (0)

3.1.3 Short-term trend Magnitude

a) Minimum  
b) Maximum 0  
c) Best single value 0

3.1.4 Short-term trend Method used

Complete survey or a statistically robust estimate

3.1.5 Sources

1) Gaudard C. (compiler) (2018). International Single Species Action Plan for the Yelkouan Shearwater *Puffinus Yelkouan*. Project LIFE 14 PRE/UK/000002. Coordinated Efforts for International Species Recovery EuroSAP. LPO/BirdLife France. Rochefort. 45p.

2) Fric, J., Πορτόλου, Δ., Ευαγγελίδης, Α., Δημαλέξης, Τ., Παπαδάς, Χ. & Ι. Νικολάου (2019). Μελέτη του πληθυσμού Μύχων (*Puffinus yelkouan*) στην περιοχή της Γυάρου. Συγκεντρωτική αναφορά 2015-2018. Nature Conservation Consultants (NCC) Ε.Π.Ε. & Ελληνική Ορνιθολογική Εταιρεία.

3) BirdLife International (2004) Birds in Europe: Population estimates, trends and conservation status. Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12).

4) Natura Viewer (<http://natura2000.eea.europa.eu/#>).

5) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παπαζογλου, C. & Baron, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού.

6) Fric, J., Portolou, D., Manolopoulos, A. and T. Kastritis (2012). Important Areas for Seabirds in Greece. LIFE07 NAT/GR/000285 - Hellenic Ornithological Society (HOS / BirdLife Greece), Athens.

7) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

#### 3.2 Long-term trend (since c. 1980)

## Annex B - Bird Species' status and trends report (Article 12)

3.2.1 Long-term trend Period	1980-2018
3.2.2 Long-term trend Direction	Unknown (X)
3.2.3 Long-term trend Magnitude	a) Minimum b) Maximum c) Best single value
3.2.4 Long-term Trend Method used	Insufficient or no data available
3.2.5 Sources	No data available
3.3 Additional information	

### 4. Breeding distribution map and size

4.1 Sensitive species	Yes
4.2 Year or period	2013-2018
4.3 Breeding distribution map	Yes
4.4 Breeding distribution surface area	59200
4.5 Breeding distribution Method used	Complete survey or a statistically robust estimate
4.6 Additional maps	Yes
4.7 Sources	1) Gaudard C. (compiler) (2018). International Single Species Action Plan for the Yelkouan Shearwater Puffinus Yelkouan. Project LIFE 14 PRE/UK/000002. Coordinated Efforts for International Species Recovery EuroSAP. LPO/BirdLife France. Rochefort. 45p. 2) Fric, J., Πορτόλου, Δ., Ευαγγελίδης, Α., Δημαλέξης, Τ., Παπαδάς, Χ. & Ι. Νικολάου (2019). Μελέτη του πληθυσμού Μύχων (Puffinus yelkouan) στην περιοχή της Γυάρου. Συγκεντρωτική αναφορά 2015-2018. Nature Conservation Consultants (NCC) Ε.Π.Ε. & Ελληνική Ορνιθολογική Εταιρεία. 3) Handrinos, G., & Akriotis, T., (1997) The birds of Greece. C. Helm, A & C Black, London. 4) Mullarney, K., Svensson, L., Zetterström, D. & Grant, P. J., (2007), Οδηγός Αναγνώρισης: Τα Πουλιά της Ελλάδας, της Κύπρου και της Ευρώπης, Albert Bonniers Forlag, Stockholm/ Ελληνική Ορνιθολογική Εταιρεία, Αθήνα, Παπακωνσταντίνου, Κ., ISBN: 9789608663183. 5) Hagemeyer, E.J.M. & M.J. Blair (editors). 1997. The EBCC Atlas of European Breeding Birds: their distribution and abundance. T & A.D. Poyser, London. < <a href="http://s1.sovon.nl/ebcc/ea/">http://s1.sovon.nl/ebcc/ea/</a> > 6) The IUCN Red List of Threatened Species. Version 2014.3. < <a href="http://www.iucnredlist.org">www.iucnredlist.org</a> > 7) ΥΠΕΚΑ (2012). Περιγραφική και γεωγραφική βάση δεδομένων του Δικτύου Natura 2000 ( <a href="http://www.ypeka.gr/Default.aspx?tabid=432&amp;language=el-GR">http://www.ypeka.gr/Default.aspx?tabid=432&amp;language=el-GR</a> ) 8) GBIF (2012). Recommended practices for citation of the data published through the GBIF Network. Version 1.0 (Authored by Vishwas Chavan), Copenhagen: Global Biodiversity Information Facility. Pp.12, ISBN: 87-92020-36-4. < <a href="http://www.gbif.org/species/search">http://www.gbif.org/species/search</a> > 9) <a href="http://www.cycladeslife.gr/%CE%BC%CE%B9%CE%B1-%CE%BC%CE%B5%CE%B3%CE%AC%CE%BB%CE%B7-%CE%B1%CE%BD%CE%B1%CE%BA%CE%AC%CE%BB%CF%85%CF%88%CE%B7-%CF%83%CF%84%CE%B7">http://www.cycladeslife.gr/%CE%BC%CE%B9%CE%B1-%CE%BC%CE%B5%CE%B3%CE%AC%CE%BB%CE%B7-%CE%B1%CE%BD%CE%B1%CE%BA%CE%AC%CE%BB%CF%85%CF%88%CE%B7-%CF%83%CF%84%CE%B7</a> 10) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος

## Annex B - Bird Species' status and trends report (Article 12)

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Θεσσαλονίκη.

4.8 Additional information 10200 - breeding colonies only

### 5. Breeding range trend

#### 5.1 Short-term trend (last 12 years)

5.1.1 Short-term trend Period 2007-2018  
5.1.2 Short-term trend Direction Unknown (X)  
5.1.3 Short-term trend Magnitude  
a) Minimum  
b) Maximum  
c) Best single value  
5.1.4 Short-term trend Method used Insufficient or no data available  
5.1.5 Sources No data available

#### 5.2 Long-term trend (since c. 1980)

5.2.1 Long-term trend Period 1980-2018  
5.2.2 Long-term trend Direction Unknown (X)  
5.2.3 Long-term trend Magnitude  
a) Minimum  
b) Maximum  
c) Best single value  
5.2.4 Long-term trend Method used Insufficient or no data available  
5.2.5 Sources No data available

5.3 Additional information

### 6. Progress in work related to international Species Action Plans (SAPs), Management Plans (MPs) and Brief Management Statements (BMSs)

6.0 Is/Will the information related to international SAPs, MPs and BMSs (section 6) be provided for the other season for this species? No  
6.1 Type of international plan Species Action Plan (SAP)  
6.2 Has a national plan linked to the international SAP/MP/BMS been adopted? No  
6.3 If 'NO', describe any measures and initiatives taken related to the international SAP/MP/BMS Rat eradications on breeding islets for other species, withing LIFE project framework, have benefitted the species indirectly  
6.4 Assessment of the effectiveness of SAPs for globally threatened species (Art. 12, Species Action Plans) unchanged (unchanged)

## Annex B - Bird Species' status and trends report (Article 12)

6.5 Assessment of the effectiveness of MPs for huntable species in non-Secure status (Articles 3 and 7, Management Plans)

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6.6 Sources of further Information

International Species Action Plan & Status Report

Gaudard C. (compiler) (2018). International Single Species Action Plan for the Yelkouan Shearwater *Puffinus Yelkouan*. Project LIFE 14 PRE/UK/000002. Coordinated Efforts for International Species Recovery EuroSAP. LPO/BirdLife France. Rochefort. 45p.

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### 7. Main pressures and threats

a) Pressure	b) Ranking	c) location
Plants, contaminated or abandoned industrial sites generating pollution to surface or ground water (F13)	H	both inside and outside EU (inOutEU)
Creation or development of sports, tourism and leisure infrastructure (outside the urban or recreational areas) (F05)	M	both inside and outside EU (inOutEU)
Other invasive alien species (other than species of Union concern) (I02)	H	both inside and outside EU (inOutEU)
Bycatch and incidental killing (due to fishing and hunting activities) (G12)	H	both inside and outside EU (inOutEU)
Extraction of oil and gas, including infrastructure (C03)	M	both inside and outside EU (inOutEU)
Extraction activities generating marine pollution (C12)	M	both inside and outside EU (inOutEU)
Wind, wave and tidal power, including infrastructure (D01)	H	both inside and outside EU (inOutEU)
Other impacts from marine aquaculture, including infrastructure (G19)	M	both inside and outside EU (inOutEU)
a) Threat	d) Ranking	e) location
Plants, contaminated or abandoned industrial sites generating pollution to surface or ground water (F13)	H	both inside and outside EU (inOutEU)
Creation or development of sports, tourism and leisure infrastructure (outside the urban or recreational areas) (F05)	M	both inside and outside EU (inOutEU)
Other invasive alien species (other than species of Union concern) (I02)	H	both inside and outside EU (inOutEU)

### 7.2 Sources of information

1) IUCN. 2012. IUCN Red List of Threatened Species (ver. 2012.1). Available at: <http://www.iucnredlist.org>.

2) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ.,

## Annex B - Bird Species' status and trends report (Article 12)

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<http://www.ypeka.gr/LinkClick.aspx?fileticket=62LywcEzaKE%3D&tabid=539&language=el-GR>.

3) International Species Action Plan & Status Report Gaudard C. (compiler) (2018). International Single Species Action Plan for the Yelkouan Shearwater Puffinus Yelkouan. Project LIFE 14 PRE/UK/000002. Coordinated Efforts for International Species Recovery EuroSAP. LPO/BirdLife France. Rochefort. 45p.

4) Garcia Robles H., Deceuninck B. & Micol T. (compilers), 2016. Status Report for Yelkouan Shearwater Puffinus Yelkouan (2nd draft). Project LIFE 14 PRE/UK/000002 Coordinated Efforts for International Species Recovery EuroSAP. Ligue pour la Protection des Oiseaux, BirdLife France. Rochefort. 22 p.

### 7.3 Additional information

## 8. Main Conservation Measures

### 8.1 Status of measures

Measures identified, but none yet taken

### 8.2 Main purpose of the measures taken

### 8.3 Location of the measures

### 8.4 Response to the measures

### 8.5 List of main conservation measures

CC03 - Adapt/manage renewable energy installation, facilities and operation

CG05 - Reduce bycatch and incidental killing of non-target species

CG09 - Other measures to reduce impacts from marine aquaculture infrastructures and operation

CI03 - Management, control or eradication of other invasive alien species

### 8.6 Additional information

## 9. Natura 2000 (SPAs) coverage

### 9.1 Population size inside the Natura 2000 (SPA) network

a) Unit	number of pairs (p)
b) Minimum	6830
c) Maximum	13200
d) Best single value	

### 9.2 Type of estimate

Best estimate

### 9.3 Population size inside the network Method used

Complete survey or a statistically robust estimate

### 9.4 Short-term trend of population size within the network Direction

Unknown (X)

## Annex B - Bird Species' status and trends report (Article 12)

9.5 Short-term trend of population size within the network Method used

Insufficient or no data available

9.6 Additional information