



## **Francesca Ribas Prats**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My primary academic interest is unravelling the physical processes that dominate the dynamics of sedimentary coasts. My final goal is to increase the presently-limited predictive capacity of mathematical models in order to unveil the future of these fragile and complex systems of high socio-economic value.

After finishing the Physics degree I did a PhD in the Physics Department of Universitat Politècnica de Catalunya (UPC) under the supervision of Prof. Dr. Albert Falqués, with a competitive PhD grant. In this period (1999-2003) I specialized on the mathematical modelling of the physical processes governing coastal morphodynamics, with emphasis on the mechanisms behind nearshore patterns, and learning a wide range of numerical and analytical techniques. Starting the postdoc period, I decided to focus on field observations to fill in the large existing gap between the theoretical results on nearshore patterns and available data. Firstly, I did a 1-year postdoc at Utrecht University, followed by a 3-year postdoc at Institut de Ciències del Mar (ICM, CSIC), with a Juan de la Cierva competitive grant. During this period (2004-2008) I specialized on data acquisition, with emphasis on remote sensing with video cameras and image processing, and I applied this new knowledge to characterize observed nearshore patterns, focusing on getting the needed data to validate models. In September 2007, I got a full-time position at the Physics Department of UPC, where I combine teaching responsibilities (mostly in Fluid Mechanics) with my research activity. During this last period, I have been integrating mathematical modelling and data acquisition to validate model results, an essential step to increase the predictive model capacity. Also, I have been working on large-scale shoreline dynamics, through the supervision of two PhD thesis.

My main scientific contributions result from the combination of my two expertise. One of my main achievements is developed in a series of pioneering studies that have unravelled and validated the physical mechanisms behind nearshore transverse bars, improving the knowledge on sediment transport. More recently, I have contributed to the validation of a large scale model that has successfully reproduced for the first time the long term evolution of a mega-nourishment in the Dutch coast. My wide expertise in coastal morphodynamic patterns has brought me to publish a review work in the high-impact journal *Reviews of Geophysics*. In the next years, I want to address the important open question of how beaches will respond to climate change, which will require to cooperate with experts on climate change and to continue with the model-data integration.

At present, my number of publications in JCR journals is 20, of which I am first author in 8, and about 75% are in highly ranked journals (Q1). I have also published 29 contributions to peer reviewed publications not listed in JCR. Finally, I have done oral presentations in 14 international conferences, including an invited talk, and I have participated in another 40 contributions to international conferences. I have participated in 7 research projects funded by the Spanish government and in 3 European projects and I am a reviewer of several scientific journals and member of the scientific committee of a conference. Finally, the research stays I have done in international and Spanish institutions, especially during the postdocs, and the participation in European projects, has allowed me to have a wide net of scientific collaborators outside UPC.



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Six-year research periods (sexenios): 2

Date of last granted: 01/01/2018

Number of thesis supervised in the last ten years: 2

Number of citations: 198

Average number of citations per year in the last five years (excluding the present year): 21.5

Number of publications in journals indexed in JCR: 20

Number of publications in the first quartile (Q1): 14

h Index: 9.0

**Francesca Ribas Prats**

**Surname(s):** Ribas Prats  
**Name:** Francesca  
**DNI:** 46816269E  
**ORCID:** 0000-0003-4701-5982  
**ScopusID:** 7004171448  
**ResearcherID:** B-2955-2015  
**Date of birth:** 03/05/1976  
**Gender:** Female  
**Nationality:** Spain  
**Country of birth:** Spain  
**Aut. region/reg. of birth:** Catalonia  
**City of birth:** Sant Feliu de Llobregat  
**Contact address:** Campus del Baix Llobregat, Edifici C3, Carrer Esteve Terradas 5  
**Postcode:** 08860  
**Contact country:** Spain  
**Contact aut. region/reg.:** Catalonia  
**Contact city:** Castelldefels  
**Land line phone:** 934134145  
**Fax:** 934137007  
**Email:** francesca.ribas@upc.edu

**Current professional situation**

**Employing entity:** Universitat Politècnica de Catalunya      **Type of entity:** University  
**Department:** Department of Physics, Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)  
**Professional category:** Associate professor      **Educational Management (Yes/No):** Yes  
**City employing entity:** Castelldefels, Spain  
**Phone:** 93 4134145  
**Start date:** 01/09/2014  
**Type of contract:** Temporary employment contract      **Dedication regime:** Full time  
**Primary (UNESCO code):** 220404 - Fluid mechanics  
**Performed tasks:** Agregat/da

**Previous positions and activities**

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
<b>1</b>	Universitat Politècnica de Catalunya	Assistant professor	01/09/2008
<b>2</b>	Universitat Politècnica de Catalunya	Visiting lecturer	01/09/2007
<b>3</b>	Inst. de Ciències del Mar (CSIC)	Contracte Juan de la Cierva	01/01/2005
<b>4</b>	Utrecht University	Contracte post-doctoral	01/02/2004
<b>5</b>	Universitat Politècnica de Catalunya	Visiting lecturer	15/01/2003

	Employing entity	Professional category	Start date
6	Universitat Politècnica de Catalunya	Research assistant	01/01/1999

- 1** **Employing entity:** Universitat Politècnica de Catalunya  
**Type of entity:** University  
**Department:** Department of Applied Physics, Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)  
**City employing entity:** Castelldefels, Spain  
**Professional category:** Assistant professor **Educational Management (Yes/No):** Yes  
**Phone:** 93 4134145  
**Start-End date:** 01/09/2008 - 31/08/2014 **Duration:** 6 years  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Performed tasks:** Lector/a
- 2** **Employing entity:** Universitat Politècnica de Catalunya  
**Type of entity:** University  
**Department:** Department of Applied Physics, Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)  
**Professional category:** Visiting lecturer **Educational Management (Yes/No):** Yes  
**Start-End date:** 01/09/2007 - 31/08/2008 **Duration:** 1 year  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Performed tasks:** Professor visitant
- 3** **Employing entity:** Inst. de Ciències del Mar (CSIC)  
**Type of entity:** R&D Centre  
**Professional category:** Contracte Juan de la Cierva **Educational Management (Yes/No):** No  
**Start-End date:** 01/01/2005 - 31/08/2007 **Duration:** 2 years - 8 months - 1 day  
**Type of contract:** Contracte Juan de la Cierva  
**Dedication regime:** Full time  
**Performed tasks:** Contracte Juan de la Cierva
- 4** **Employing entity:** Utrecht University  
**Type of entity:** R&D Centre  
**Professional category:** Contracte post-doctoral **Educational Management (Yes/No):** No  
**Start-End date:** 01/02/2004 - 31/12/2004 **Duration:** 11 months - 4 days  
**Type of contract:** Contracte post-doctoral  
**Dedication regime:** Full time  
**Performed tasks:** Contracte post-doctoral
- 5** **Employing entity:** Universitat Politècnica de Catalunya  
**Type of entity:** University  
**Department:** Department of Applied Physics, Department of Applied Physics  
**Professional category:** Visiting lecturer **Educational Management (Yes/No):** Yes  
**Start-End date:** 15/01/2003 - 14/01/2004 **Duration:** 12 months - 4 days  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Performed tasks:** Professor Visitant



- 6** **Employing entity:** Universitat Politècnica de Catalunya **Type of entity:** University  
**Department:** Department of Applied Physics, Department of Applied Physics  
**Professional category:** Research assistant **Educational Management (Yes/No):** No  
**Start-End date:** 01/01/1999 - 31/12/2002 **Duration:** 4 years  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Performed tasks:** FI Generalitat de Catalunya



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**University degree:** Higher degree

**Name of qualification:** Licenciada en Física

**Degree awarding entity:** Universitat de Barcelona    **Type of entity:** University

**Date of qualification:** 31/07/1998

**Foreign qualification:** Licenciada en Física

#### Doctorates

**Doctorate programme:** Doctor

**Degree awarding entity:** Universitat Politècnica de Catalunya    **Type of entity:** University

**Date of degree:** 26/01/2004

**European doctorate:** Yes

**Date of certificate:** 26/01/2004

**Thesis title:** On the growth of nearshore sand bars as instability processes of equilibrium beach states

**Thesis director:** Alberto Falques Serra

**Obtained qualification:** Excellent Cum Laude

**Special doctorate award:** No

#### Other postgraduate university studies

**Type of education:** Postgraduate

**Postgraduate qualification:** DEA en Física Aplicada

**Degree awarding entity:** UPC

**Type of entity:** Altres

**Date of qualification:** 16/02/2001

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	C1	C1	C1	C1	C1
Spanish	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1



## Teaching experience

### Experience supervising doctoral thesis and/or final year projects

- 1 **Project title:** Dynamics of large-scale shoreline perturbations  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Alberto Falques Serra  
**Entity:** Universitat Politècnica de Catalunya **Type of entity:** University  
**City of entity:** Catalonia, Spain  
**Student:** Jaime Alonso Arriaga Garcia  
**Obtained qualification:** Excellent  
**Date of reading:** 30/07/2018
  
- 2 **Project title:** Modelling the dynamics of large scale shoreline sand waves  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Alberto Falques Serra  
**Entity:** Universitat Politècnica de Catalunya **Type of entity:** University  
**City of entity:** Catalonia, Spain  
**Student:** Niels Van den Berg  
**Obtained qualification:** Pass Cum Laude  
**Date of reading:** 11/05/2012

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1 **Name of the project:** Morfodiámica de costas: interacción de patrones en diferentes escalas  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** FÍSICA  
**Name principal investigator (PI, Co-PI...):** Alberto Falques Serra  
**Nº of researchers:** 9  
**Funding entity or bodies:**  
MIN DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** Ministerio  
**Code according to the funding entity:** CTM2015-66225-C2-1-P  
**Start-End date:** 01/01/2016 - 31/12/2019 **Duration:** 4 years  
**Total amount:** 167.101 €
  
- 2 **Name of the project:** MODEX: Morphological Diffusivity Experiment  
**Geographical area:** European Union  
**Degree of contribution:** Researcher





**Entity where project took place:** Universitat Politècnica de Catalunya

**City of entity:** Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Matthieu de Schipper

**Nº of researchers:** 8

**Funding entity or bodies:**

European Commission

**Type of entity:** Govern CEE

**Start-End date:** 30/04/2018 - 15/06/2018

**Duration:** 1 month - 17 days

**3 Name of the project:** PATRONES MORFODINAMICOS COSTEROS: MODELOS, OBSERVACIONES Y APLICACIONES

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** FÍSICA

**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra

**Nº of researchers:** 1

**Funding entity or bodies:**

MIN DE ECONOMIA Y COMPETITIVIDAD

**Type of entity:** Ministerio

**Code according to the funding entity:** CTM2012-35398

**Start-End date:** 01/01/2013 - 31/12/2015

**Duration:** 3 years

**Total amount:** 85.410 €

**4 Name of the project:** Dinàmica de fluids; formació d'estructures i aplicacions geofísiques

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** UPC

**City of entity:** Barcelona,

**Name principal investigator (PI, Co-PI....):** Francisco Marques Truyol

**Nº of researchers:** 13

**Funding entity or bodies:**

Agència de Gestió d'Ajuts Universitaris i de Recerca (Agaur) **Type of entity:** Public Research Body

**Code according to the funding entity:** 2009 SGR 1045

**Start-End date:** 01/01/2009 - 31/12/2013

**Duration:** 4 years - 11 months - 30 days

**5 Name of the project:** MODELIZACIÓN Y MONITARIZACIÓN INTEGRADAS EN MORFODINAMICA DE PLAYAS NATURALES Y REGENERADAS

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** FÍSICA

**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra

**Nº of researchers:** 1

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación (MICINN)

**Type of entity:** Ministerio

**Code according to the funding entity:** CTM2009-11892

**Start-End date:** 01/01/2010 - 30/06/2013

**Duration:** 3 years - 6 months

**Total amount:** 121.540,25 €



- 6** **Name of the project:** Linear stability analysis in coastal morphodynamics: essential or useless?  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universitat Politècnica de Catalunya  
**City of entity:** Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
Ministerio de Ciencia e Innovación **Type of entity:** State agency  
**Code according to the funding entity:** CTM2009-06609-E  
**Start-End date:** 01/10/2009 - 01/10/2010 **Duration:** 1 year - 1 day  
**Total amount:** 4.000 €
- 7** **Name of the project:** Morfodinámica de playas: predicciones en las grandes escalas espacio-temporales  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Department of Applied Physics  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
MINISTERIO DE EDUCACIÓN Y CIENCIA **Type of entity:** Ministerio  
**Code according to the funding entity:** CTM2006-08875  
**Start-End date:** 01/10/2006 - 30/09/2009 **Duration:** 3 years  
**Participating entity/entities:** UPC  
**Total amount:** 73.810 €
- 8** **Name of the project:** Efectos de riadas y tormentas en los sedimentos y metales pesados asociados de un sistema litoral afectado por actividades industriales y urbanas  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Department of Applied Physics  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Alberto Palanques  
**Nº of researchers:** 2  
**Funding entity or bodies:**  
Ministerio de Educación, Política Social y Deporte **Type of entity:** Body, others  
**Start-End date:** 01/10/2006 - 30/09/2009 **Duration:** 3 years  
**Participating entity/entities:** ICM (CSIC)  
**Total amount:** 245.630 €
- 9** **Name of the project:** Comparison of coastal processes and monitoring activities between some Bulgarian and Spanish beaches  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Department of Applied Physics  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Alberto Palanques  
**Nº of researchers:** 2  
**Funding entity or bodies:**



Ministerio de Educación, Política Social y Deporte

**Type of entity:** Body, others

**Start-End date:** 01/01/2006 - 31/12/2007

**Duration:** 1 year - 12 months - 4 days

**Participating entity/entities:** ICM, Institut of Oceanology (Bulgaria).

**10 Name of the project:** Morfodinámica de playas urbanizadas: integración de datos experimentales y modelos teóricos (PUDEM)

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Department of Applied Physics

**City of entity:** Barcelona, Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra

**Nº of researchers:** 4

**Funding entity or bodies:**

Ministerio de Ciencia y Tecnología

**Type of entity:** Ministerio

**Start-End date:** 15/12/2003 - 14/12/2006

**Duration:** 3 years

**Participating entity/entities:** UPC, ICM

**Total amount:** 39.215 €

**11 Name of the project:** HUMOR. Human interaction with large scale coastal morphological evolution

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** Department of Applied Physics

**City of entity:** Barcelona, Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra

**Nº of researchers:** 2

**Funding entity or bodies:**

U.E.

**Type of entity:** R&D Centre

**Code according to the funding entity:** EVK3-CT-2000-00037

**Start-End date:** 01/02/2001 - 31/01/2004

**Duration:** 2 years - 12 months - 4 days

**Participating entity/entities:** Universidad de Granada (UGR)

**Total amount:** 193.000 €

**12 Name of the project:** Interacción de ondas largas y corriente longitudinal en la morfodinamica de la zona de rompientes

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Department of Applied Physics

**City of entity:** Barcelona, Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra

**Nº of researchers:** 3

**Funding entity or bodies:**

DGES (ANTIGA DGICYT)

**Type of entity:** R&D Centre

**Code according to the funding entity:** PB98-0929

**Start-End date:** 31/12/1999 - 31/12/2002

**Duration:** 3 years - 1 day

**Participating entity/entities:** UPC

**Total amount:** 21.203,71 €



**13 Name of the project:** Surf and swash zone mechanics (SASME)  
**Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** Department of Applied Physics  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Alberto Falques Serra  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
 U.E. (MAST3)  
**Start-End date:** 01/10/1997 - 30/09/2000  
**Participating entity/entities:** UPC & others  
**Total amount:** 105.778 €

**Type of entity:** Body, others

**Duration:** 3 years

## Scientific and technological activities

### Scientific production

**H index:** 9

**Date of application:** 29/08/2017

### Publications, scientific and technical documents

**1** Arriaga, J.; Falques, A.; Ribas, F.; Crews, E. Formation events of shoreline sand waves on a gravel beach. *Ocean dynamics*. 68 - 6, pp. 735 - 748. 04/05/2018. Available on-line at: <<https://link.springer.com/article/10.1007/s10236-018-1157-5>>. ISSN 1616-7341

**Handle:** <http://hdl.handle.net/2117/118234>

**DOI:** 10.1007/s10236-018-1157-5

**Type of production:** Scientific paper

**Position of signature:** 3

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 4

**Impact source:** ISI

**Impact index in year of publication:** 1.597

**2** Simarro, G.; Ribas, F.; Alvarez, A.; Guillén, J.; Chic, O.; Orfila, A. ULISES: an open source code for extrinsic calibrations and planview generations in coastal video monitoring systems. *Journal of coastal research*. 33 - 5, pp. 1217 - 1227. 01/09/2017. Available on-line at: <<http://www.bioone.org/doi/10.2112/JCOASTRES-D-16-00022.1>>. ISSN 0749-0208

**Handle:** <http://hdl.handle.net/2117/112927>

**DOI:** 10.2112/JCOASTRES-D-16-00022.1

**Type of production:** Scientific paper

**Position of signature:** 2

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 6

**Impact source:** ISI

**Impact index in year of publication:** 0.915

**Position of publication:** 193

**Category:** ENVIRONMENTAL SCIENCES

**Journal in the top 25%:** No

**No. of journals in the cat.:** 229



- 3** Falques, A.; Ribas, F.; Idier, D.; Arriaga, J. Formation mechanisms for self-organized kilometer-scale shoreline sand waves. *Journal of Geophysical Research: Earth Surface*. 122 - 5, pp. 1121 - 1138. American Geophysical Union (AGU), 16/05/2017. Available on-line at: <<http://onlinelibrary.wiley.com/doi/10.1002/2016JF003964/abstract;jsessionid=F2EA87708CC3C67F36CEDA6C797A44DE.f03t04>>. ISSN 2169-9011  
**DOI:** 10.1002/2016JF003964  
**Handle:** <http://hdl.handle.net/2117/105391>  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 4  
**Impact source:** ISI  
**Impact index in year of publication:** 3.412  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Citations:** 6
- 4** Arriaga, J.; Rutten, J.; Ribas, F.; Falques, A.; Ruessink, B. Modeling the long-term diffusion and feeding capability of a mega-nourishment. *Coastal engineering*. 121, pp. 1 - 13. 01/03/2017. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0378383916303659>>. ISSN 0378-3839  
**DOI:** 10.1016/j.coastaleng.2016.11.011  
**Handle:** <http://hdl.handle.net/2117/108377>  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 5  
**Impact source:** ISI  
**Impact index in year of publication:** 3.221  
**Position of publication:** 9  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** ENGINEERING, CIVIL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 125  
**Citations:** 3
- 5** Ribas, F.; Falques, A.; de Swart, H.; Dodd, N.; Garnier, R.; Calvete, D. Understanding coastal morphodynamic patterns from depth-averaged sediment concentration. *Reviews of geophysics*. 53, pp. 362 - 410. 2015. Available on-line at: <<http://dx.doi.org/10.1002/2014RG000457>>. ISSN 8755-1209  
**DOI:** 10.1002/2014RG000457  
**Handle:** <http://hdl.handle.net/2117/79295>  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 6  
**Impact source:** ISI  
**Impact index in year of publication:** 12.34  
**Position of publication:** 1  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** GEOCHEMISTRY & GEOPHYSICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 84  
**Citations:** 13
- 6** Ribas, F.; ten Doeschate, A.; de Swart, H.; Ruessink, B.; Calvete, D. Observations and modeling of surf zone transverse finger bars at the Gold Coast, Australia. *Ocean dynamics*. 64 - 8, pp. 1193 - 1207. 01/08/2014. Available on-line at: <<http://link.springer.com/article/10.1007/s10236-014-0719-4>>. ISSN 1616-7341  
**DOI:** 10.1007/s10236-014-0719-4  
**Handle:** <http://hdl.handle.net/2117/26208>  
**Type of production:** Scientific paper  
**Format:** Journal



**Position of signature:** 1

**Total no. authors:** 5

**Impact source:** ISI

**Impact index in year of publication:** 1.597

**Position of publication:** 34

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** OCEANOGRAPHY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 63

**Citations:** 5

- 7** Van den Berg, N.; Falques, A.; Ribas, F.; Caballería, M. On the mechanism of wavelength selection of self-organized shoreline sand waves. *Journal of geophysical research*. 119 - 3, pp. 665 - 681. American Geophysical Union (AGU), 26/03/2014. Available on-line at: <<http://dx.doi.org/10.1002/2013JF002751>>. ISSN 0148-0227

**DOI:** 10.1002/2013JF002751

**Handle:** <http://hdl.handle.net/2117/26389>

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 4

**Impact source:** ISI

**Impact index in year of publication:** 3.318

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Citations:** 4

- 8** Ribas, F.; Falques, A.; Van den Berg, N.; Caballería, M. Modeling shoreline sand waves on the coasts of Namibia and Angola. *International journal of sediment research*. 28 - 3, pp. 338 - 348. 09/2013. Available on-line at: <[http://dx.doi.org/10.1016/S1001-6279\(13\)60044-X](http://dx.doi.org/10.1016/S1001-6279(13)60044-X)>. ISSN 1001-6279

**Handle:** <http://hdl.handle.net/2117/26388>

**DOI:** 10.1016/S1001-6279(13)60044-X

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 4

**Impact source:** ISI

**Impact index in year of publication:** 1.494

**Format:** Journal

**Citations:** 4

- 9** Garnier, R.; Falques, A.; Calvete, D.; Thiebot, J.; Ribas, F. A mechanism for sandbar straightening by oblique wave incidence. *Geophysical research letters*. 40 - 11, pp. 2726 - 2730. 06/06/2013. Available on-line at: <<http://onlinelibrary.wiley.com/doi/10.1002/grl.50464/abstract>>. ISSN 0094-8276

**Handle:** <http://hdl.handle.net/2117/20100>

**DOI:** 10.1002/grl.50464

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 5

**Impact source:** ISI

**Impact index in year of publication:** 4.253

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Citations:** 11



- 10** Fernandez, M.; Calvete, D.; Falques, A.; Ribas, F.; Idier, D. On the predictability of mid-term cross-shore profile evolution. *Journal of coastal research*. pp. 476 - 481. 01/01/2013. Available on-line at: <<http://dx.doi.org/10.2112/SI65-081.1>>. ISSN 0749-0208  
**DOI:** 10.2112/SI65-081.1  
**Handle:** <http://hdl.handle.net/2117/26386>  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 5  
**Impact source:** ISI  
**Impact index in year of publication:** 0.915  
**Position of publication:** 193  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** ENVIRONMENTAL SCIENCES  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 229
- 11** Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A. Modeling and analyzing observed transverse sand bars in the surf zone. *Journal of geophysical research*. 117 - F02013, pp. 1 - 16. American Geophysical Union (AGU), 25/04/2012. Available on-line at: <<http://www.agu.org/pubs/crossref/2012/2011JF002158.shtml>>. ISSN 0148-0227  
**DOI:** 10.1029/2011JF002158  
**Handle:** <http://hdl.handle.net/2117/26384>  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 4  
**Impact source:** ISI  
**Impact index in year of publication:** 3.318  
**Position of publication:** 27  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** GEOSCIENCES, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 184  
**Citations:** 6
- 12** Van den Berg, N.; Falques, A.; Ribas, F. Modeling large scale shoreline sand waves under oblique wave incidence. *Journal of geophysical research*. 117 - 3, pp. 1 - 18. American Geophysical Union (AGU), 2012. Available on-line at: <<http://dx.doi.org/10.1029/2011JF002177>>. ISSN 0148-0227  
**DOI:** 10.1029/2011JF002177  
**Handle:** <http://hdl.handle.net/2117/26393>  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 3.318  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Citations:** 20
- 13** Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A. Modeling waves, currents and sandbars on natural beaches: The effect of surface rollers. *Journal of marine systems*. 88 - 1, pp. 90 - 101. 10/2011. Available on-line at: <<http://dx.doi.org/10.1016/j.jmarsys.2011.02.016>>. ISSN 0924-7963  
**DOI:** 10.1016/j.jmarsys.2011.02.016  
**Handle:** <http://hdl.handle.net/2117/26372>  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 4  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Impact source:** ISI**Impact index in year of publication:** 2.439**Citations:** 9

- 14** Van den Berg, N.; Falques, A.; Ribas, F. Long-term evolution of nourished beaches under high angle wave conditions. *Journal of marine systems*. 88 - 1, pp. 102 - 112. 10/2011. Available on-line at: <<http://dx.doi.org/10.1016/j.jmarsys.2011.02.018>>. ISSN 0924-7963

**DOI:** 10.1016/j.jmarsys.2011.02.018**Handle:** <http://hdl.handle.net/2117/13105>**Type of production:** Scientific paper**Position of signature:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 2.439**Position of publication:** 22**Category:** MARINE & FRESHWATER BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 105**Citations:** 14

- 15** Falques, A.; Calvete, D.; Ribas, F. Shoreline instability due to very oblique wave incidence: some remarks on the physics. *Journal of coastal research*. 27 - 2, pp. 291 - 295. 03/2011. Available on-line at: <<http://dx.doi.org/10.2112/JCOASTRES-D-09-00095.1>>. ISSN 0749-0208

**Handle:** <http://hdl.handle.net/2117/12458>**DOI:** 10.2112/JCOASTRES-D-09-00095.1**Type of production:** Scientific paper**Position of signature:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 0.915**Citations:** 9

- 16** Ojeda, E.; Guillén, J.; Ribas, F. Dynamics of single-barred embayed beaches. *Marine geology*. 280 - 1-4, pp. 76 - 90. 15/02/2011. Available on-line at: <Dynamics of single-barred embayed beaches>. ISSN 0025-3227

**Handle:** <http://hdl.handle.net/2117/26365>**DOI:** 10.1016/j.margeo.2010.12.002**Type of production:** Scientific paper**Position of signature:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 3.572**Position of publication:** 27**Category:** GEOSCIENCES, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 188**Citations:** 14

- 17** Ribas, F.; Ojeda, E.; Price, T.D.; Guillén, J. Assessing the suitability of video imaging for studying the Dynamics of nearshore sandbars in tideless beaches. *IEEE transactions on geoscience and remote sensing*. 48 - 6, pp. 2482 - 2497. Institute of Electrical and Electronics Engineers (IEEE), 2010. Available on-line at: <[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5415649](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5415649)>. ISSN 0196-2892





**DOI:** 10.1109/TGRS.2009.2039576  
**Handle:** <http://hdl.handle.net/2117/26363>  
**Type of production:** Scientific paper  
**Position of signature:** 1

**Total no. authors:** 4  
**Impact source:** ISI  
**Impact index in year of publication:** 4.942

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Citations:** 13

- 18** Ojeda, E.; Guillén, J.; Ribas, F. The morphodynamic responses of artificial embayed beaches to storm events. *Advances in geosciences*. 26, pp. 99 - 103. European Geosciences Union (EGU), 2010. Available on-line at: <http://dx.doi.org/10.5194/adgeo-26-99-2010>. ISSN 1680-7359

**Handle:** <http://hdl.handle.net/2117/11706>  
**DOI:** 10.5194/adgeo-26-99-2010  
**Type of production:** Scientific paper  
**Position of signature:** 3

**Total no. authors:** 3  
**Impact source:** SJR - SCImago Journal Rank  
**Impact index in year of publication:** 0.594

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

- 19** Falques, A.; Dodd, N.; Garnier, R.; Ribas, F.; Machardy, L.; Larroude, P.; Calvete, D.; Sancho, F. Rhythmic surf zone bars and morphodynamic self-organization. *Coastal engineering*. 55 - 7-8, pp. 622 - 641. 07/2008. Available on-line at: <http://www.sciencedirect.com/science/article/pii/S0378383907001573>. ISSN 0378-3839

**DOI:** 10.1016/j.coastaleng.2007.11.012  
**Handle:** <http://hdl.handle.net/2117/16265>  
**Type of production:** Scientific paper  
**Position of signature:** 4

**Total no. authors:** 8  
**Impact source:** ISI  
**Impact index in year of publication:** 3.221  
**Position of publication:** 9

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** ENGINEERING, CIVIL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 125

**Citations:** 18

- 20** Ribas, F.; Kroon, A. Characteristics and dynamics of surfzone transverse finger bars. *Journal of geophysical research*. 112, pp. F03028 - -. American Geophysical Union (AGU), 09/2007. ISSN 0148-0227

**Handle:** <http://hdl.handle.net/2117/26392>  
**Type of production:** Scientific paper  
**Position of signature:** 1

**Total no. authors:** 2  
**Impact source:** ISI  
**Impact index in year of publication:** 3.318  
**Position of publication:** 27

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** GEOSCIENCES, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 184

**Citations:** 15

- 21** Ribas, F.; Falques, A.; Montoto, A. Nearshore oblique sand bars. *Journal of geophysical research*. 108 - C4 (3119), pp. 1 - 17. American Geophysical Union (AGU), 04/2003. ISSN 0148-0227  
**Handle:** <http://hdl.handle.net/2117/26202>  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 3.318  
**Position of publication:** 27  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** GEOSCIENCES, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 184  
**Citations:** 33
- 22** Falques, A.; Ribas, F. Km-scale shoreline sand waves in the Western Mediterranean Sea. *Atlas of bedforms in the Western Mediterranean*. pp. 65 - 72. Springer International Publishing, 2017. Available on-line at: <<http://link.springer.com/book/10.1007/978-3-319-33940-5>>. ISBN 978-3-319-33938-2  
**DOI:** 10.1007/978-3-319-33940-5  
**Handle:** <http://hdl.handle.net/2117/100709>  
**Type of production:** Book chapter  
**Position of signature:** 2  
**Total no. authors:** 2  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book
- 23** Falques, A.; Ribas, F. Km-scale shoreline sand waves. *Atlas of bedforms in the Western Mediterranean*. pp. 59 - 63. Springer International Publishing, 2017. Available on-line at: <<http://link.springer.com/book/10.1007/978-3-319-33940-5>>. ISBN 978-3-319-33938-2  
**DOI:** 10.1007/978-3-319-33940-5  
**Handle:** <http://hdl.handle.net/2117/100709>  
**Type of production:** Book chapter  
**Position of signature:** 2  
**Total no. authors:** 2  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book
- 24** Ribas, F.; Falques, A.; Garnier, R. Nearshore sand bars on western Mediterranean beaches. *Atlas of bedforms in the Western Mediterranean*. pp. 81 - 88. Springer International Publishing, 2017. Available on-line at: <<http://link.springer.com/book/10.1007/978-3-319-33940-5>>. ISBN 978-3-319-33938-2  
**Handle:** <http://hdl.handle.net/2117/100709>  
**DOI:** 10.1007/978-3-319-33940-5  
**Type of production:** Book chapter  
**Position of signature:** 1  
**Total no. authors:** 3  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book
- 25** Ribas, F.; Falques, A.; Garnier, R. Nearshore sand bars. *Atlas of bedforms in the Western Mediterranean*. pp. 73 - 79. Springer International Publishing, 2017. Available on-line at: <<http://link.springer.com/book/10.1007/978-3-319-33940-5>>. ISBN 978-3-319-33938-2  
**DOI:** 10.1007/978-3-319-33940-5  
**Handle:** <http://hdl.handle.net/2117/100709>  
**Type of production:** Book chapter  
**Position of signature:** 1  
**Total no. authors:** 3  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book



- 26** Falques, A.; Calvete, D.; Ribas, F.; de Swart, H.E. Modelling the dynamics of beach profiles, bars and ridges near uninterrupted coasts. *Advances in Coastal and Operational Oceanography Engineering*. pp. 75 - 107. Real Academia de Ingeniería, 09/2004. ISBN 84-95662-29-9  
**Type of production:** Book chapter **Format:** Book  
**Position of signature:** 3 **Degree of contribution:** Author or co-author of chapter in book  
**Total no. authors:** 4
- 27** Ribas, F. On the growth of nearshore sand bars as instability processes of equilibrium beach states. *Universitat Politècnica de Catalunya (Barcelona, Espanya)*, 01/2004. ISBN 84-689-0588-7  
**Type of production:** Scientific book or monograph **Format:** Book  
**Position of signature:** 1 **Degree of contribution:** Author or co-author of entire book  
**Total no. authors:** 1

### Works submitted to national or international conferences

- 1** **Title of the work:** The role of oblique wave incidence on crescentic bar dynamics  
**Name of the conference:** 10th Symposium on River, Coastal and Estuarine Morphodynamics  
**Type of participation:** 'Participatory - poster **Reasons for participation:** Review before acceptance  
**City of event:** Trento, Padova, Italy  
**Date of event:** 2017  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
 De Swart, R.L.; Ribas, F.; Calvete, D. "The role of oblique wave incidence on crescentic bar dynamics". En: RCEM 2017-Back to Italy, the 10th Symposium on River, Coastal and Estuarine Morphodynamics, Trento-Padova, 15-22 September 2017: book of abstracts. pp. 104 - 104. 2017. ISBN 978-88-8443-752-5
- 2** **Title of the work:** Formation and destruction events of shoreline sand waves  
**Name of the conference:** 10th Symposium on River, Coastal and Estuarine Morphodynamics  
**Type of participation:** Participatory - oral communication **Reasons for participation:** Review before acceptance  
**City of event:** Trento, Padova, Italy  
**Date of event:** 2017  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
 Arriaga, J.; Falques, A.; Ribas, F. "Formation and destruction events of shoreline sand waves". En: RCEM 2017-Back to Italy, the 10th Symposium on River, Coastal and Estuarine Morphodynamics, Trento-Padova, 15-22 September 2017: book of abstracts. pp. 38 - 38. 2017. ISBN 978-88-8443-752-5  
**Handle:** <http://hdl.handle.net/2117/113011>
- 3** **Title of the work:** Characteristics and dynamics of crescentic bar events in an open, tideless beach  
**Name of the conference:** Coastal Dynamics 2017  
**Type of participation:** Participatory - oral communication **Reasons for participation:** Review before acceptance  
**City of event:** Helsingør, Denmark  
**Date of event:** 2017



**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

De Swart, R.L.; Ribas, F.; Ruessink, B.; Simarro, G.; Guillén, J."Characteristics and dynamics of crescentic bar events in an open, tideless beach". En: Proceedings of Coastal Dynamics 2017. pp. 555 - 566. 2017.

**Handle:** <http://hdl.handle.net/2117/113013>

**4 Title of the work:** Formation and destruction of shoreline sand waves: observations and modelling

**Name of the conference:** Coastal Dynamics 2017

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Helsingør, Denmark

**Date of event:** 2017

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Arriaga, J.; Falques, A.; Ribas, F.; Crews, E."Formation and destruction of shoreline sand waves: observations and modelling". En: Proceedings of Coastal Dynamics 2017. pp. 781 - 790. 2017.

**Handle:** <http://hdl.handle.net/2117/113114>

**5 Title of the work:** A shoreline sand wave formation event at Dungeness, England

**Name of the conference:** 18th Conference on Physics of Estuaries and Coastal Seas

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Scheveningen, Holland

**Date of event:** 2016

**Publication in conference proceedings:** No

**With external admission assessment committee:**  
Yes

Arriaga, J.; Falques, A.; Ribas, F.; Crews, E."A shoreline sand wave formation event at Dungeness, England". 2016.

**6 Title of the work:** A shoreline sand wave formation event at Dungeness, UK

**Name of the conference:** American Geophysical Union Fall Meeting 2016

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** San Francisco, CA, United States of America

**Date of event:** 2016

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Arriaga, J.; Falques, A.; Ribas, F.; Crews, E."A shoreline sand wave formation event at Dungeness, UK". En: American Geophysical Union Fall Meeting 2016 (AGU 2016): San Francisco, USA: december 12-16, 2016. pp. 1 - 1. American Geophysical Union (AGU), 2016.

**7 Title of the work:** The potential risk induced by climate change in the context of mega-nourishments

**Name of the conference:** XXXII Trobades Científiques de la Mediterrania Josep Miquel Vidal

**Geographical area:** Regional

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Maó, Spain

**Date of event:** 2016

**Publication in conference proceedings:** Yes



**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Arriaga, J.; Rutten, J.; Ribas, F.; Ruessink, B.; Falques, A. "The potential risk induced by climate change in the context of mega-nourishments". En: Llibre d'actes de les XXXII Trobades Científiques de la Mediterrània Josep Miquel Vidal. pp. 30 - 30. 2016.

**Handle:** <http://hdl.handle.net/2117/104189>

**8 Title of the work:** On the origin of self-organized km-scale sandy shoreline undulations

**Name of the conference:** 31st IUGG Conference on Mathematical Geophysics

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Paris, France

**Date of event:** 2016

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Falques, A.; Idier, D.; Ribas, F.; Garcin, M.; Rohmer, J. "On the origin of self-organized km-scale sandy shoreline undulations". En: Book of abstracts of 31st IUGG Conference on Mathematical Geophysics. pp. 68 - 68. 2016.

**9 Title of the work:** On the physics behind coastal morphodynamic patterns

**Name of the conference:** 31st IUGG Conference on Mathematical Geophysics

**Type of participation:** Participatory - invited/keynote talk

**Reasons for participation:** Review before acceptance

**City of event:** Paris, France

**Date of event:** 2016

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Ribas, F.; Falques, A.; de Swart, H.; Dodd, N.; Garnier, R.; Calvete, D. "On the physics behind coastal morphodynamic patterns". En: 31st IUGG Conference on Mathematical Geophysics: book of abstracts, 6-10 June 2016 Paris, France. pp. 69 - 69. 2016.

**Handle:** <http://hdl.handle.net/2117/103092>

**10 Title of the work:** Modelling of mega-nourishments

**Name of the conference:** 18th UK Young Coastal Scientists and Engineers Conference

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**Date of event:** 2016

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Arriaga, J.; Rutten, J.; Ribas, F.; Ruessink, B.; Falques, A. "Modelling of mega-nourishments". En: Book of abstracts of the 18th UK Young Coastal Scientists and Engineers Conference. pp. 1 - 1. 2016.

**Handle:** <http://hdl.handle.net/2117/103090>

**11 Title of the work:** Long-term and large-scale modeling of mega-nourishments

**Name of the conference:** 18th Conference on Physics of Estuaries and Coastal Seas

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Scheveningen, Holland



**Date of event:** 2016

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Arriaga, J.; Rutten, J.; Ribas, F.; Ruessink, B.; Falques, A. "Long-term and large-scale modeling of mega-nourishments". En: Book of abstracts of 18th Conference on Physics of Estuaries and Coastal Seas. pp. 1 - 2. 2016.

**Handle:** <http://hdl.handle.net/2117/103088>

**12 Title of the work:** Physical mechanisms underlying Km-scale shoreline sand waves

**Name of the conference:** 9th symposium

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Iquitos, Peru

**Date of event:** 2015

**Publication in conference proceedings:** No

**With external admission assessment committee:**  
Yes

Falques, A.; Ribas, F.; Arriaga, J.; Idier, D. "Physical mechanisms underlying Km-scale shoreline sand waves". 2015.

**Handle:** <http://upcommons.upc.edu/urlFiles?idDrac=17553366>

**13 Title of the work:** Process-based modelling of equilibrium beach profiles

**Name of the conference:** 9th symposium

**Type of participation:** Participatory - poster

**Reasons for participation:** Review before acceptance

**City of event:** Iquitos, Peru

**Date of event:** 2015

**Publication in conference proceedings:** No

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Fernandez-Mora, A; Calvete, D.; Falques, A.; Ribas, F. "Process-based modelling of equilibrium beach profiles". En: RCEM 2015. 2015.

**14 Title of the work:** Km-scale shoreline sand waves: Numerical modelling and observations

**Name of the conference:** ICCE 2014 - 34th International Conference on Coastal Engineering

**Geographical area:** Non EU International

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Seoul,

**Date of event:** 2014

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Arriaga, J.; Ribas, F.; Mariño-Tapia, I.; Falques, A. "Km-scale shoreline sand waves: Numerical modelling and observations". En: Proceedings of 34th International Conference on Coastal Engineering. pp. 1 - 13. 2014. ISBN 978-0-9896611-2-6

**DOI:** 10.9753/icce.v34.sediment.68

**Handle:** <http://hdl.handle.net/2117/28061>



- 15** **Title of the work:** Wave driven alongshore sand transport and stability of the catalan coast  
**Name of the conference:** XXIX Trobades científiques de la Mediterrània- Josep Miquel Vidal  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Open access  
**City of event:** Maó Menorca,  
**Date of event:** 2013  
**Publication in conference proceedings:** No  
**With external admission assessment committee:** Yes  
Falques, A.; Caballería, M.; Ribas, F."Wave driven alongshore sand transport and stability of the catalan coast". pp. 1 - 1. 2013.
- 16** **Title of the work:** Shoreline sand waves: a new modeling algorithm based on a fuzzy shoreline  
**Name of the conference:** XXIX Trobades científiques de la Mediterrània- Josep Miquel Vidal  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Open access  
**City of event:** Maó Menorca,  
**Date of event:** 2013  
**Publication in conference proceedings:** No  
**With external admission assessment committee:** Yes  
Arriaga, J.; Falques, A.; Ribas, F."Shoreline sand waves: a new modeling algorithm based on a fuzzy shoreline". pp. 1 - 1. 2013.
- 17** **Title of the work:** Transporte longitudinal y estabilidad de algunos tramos de la costa catalana  
**Name of the conference:** XII Jornadas Españolas de Ingeniería de costas y puertos  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Cartagena, Spain  
**Date of event:** 2013  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Caballería, M.; Falques, A.; Ribas, F."Transporte longitudinal y estabilidad de algunos tramos de la costa catalana". En: Libro de resúmenes de las XII Jornadas Españolas de Ingeniería de costas y puertos. pp. 1 - 2. 2013.
- 18** **Title of the work:** Observations and modeling of transverse finger bars  
**Name of the conference:** 7th International Conference on Coastal Dynamics  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Arcachon, France  
**Date of event:** 2013  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
ten Doeschate, A.; Ribas, F.; de Swart, H.E.; Ruessink, B.; Calvete, D."Observations and modeling of transverse finger bars". En: Coastal Dynamics 2013: 24-28 June 2013: Arcachon Convention Centre, France. pp. 1643 - 1654. 2013.
- 19** **Title of the work:** Wave driven alongshore transport and stability of the Catalan coast  
**Name of the conference:** 8th Symposium on River, Coastal and Estuarine Morphodynamics  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Open access



**City of event:** Santander, Spain

**Date of event:** 2013

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Caballería, M.; Falques, A.; Ribas, F.; Van den Berg, N. "Wave driven alongshore transport and stability of the Catalan coast". En: Book of Abstracts : 8th Symposium on River, Coastal and Estuarine Morphodynamics. pp. 1 - 1. 2013.

**20 Title of the work:** Shoreline sand waves along the catalan coast

**Name of the conference:** 7th International Conference on Coastal Dynamics

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Arcachon, France

**Date of event:** 2013

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Falques, A.; Caballería, M.; Ribas, F.; Van den Berg, N. "Shoreline sand waves along the catalan coast". En: Extended Abstracts of Coastal Dynamics 2013. pp. 575 - 584. 2013.

**Handle:** <http://hdl.handle.net/2117/22299>

**21 Title of the work:** Characterization of crescentic patterns in double bar systems

**Name of the conference:** 8th Symposium on River, Coastal and Estuarine Morphodynamics

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Open access

**City of event:** Santander, Spain

**Date of event:** 2013

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Calvete, D.; Ribas, F.; Coco, G.; de Swart, H.E. "Characterization of crescentic patterns in double bar systems". En: Book of Abstracts : 8th Symposium on River, Coastal and Estuarine Morphodynamics. pp. 1 - 1. 2013.

**22 Title of the work:** What determines the wavelength of self-organized shoreline sand waves?

**Name of the conference:** 33rd International Conference on Coastal Engineering

**Geographical area:** Non EU International

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Santander, Spain

**Date of event:** 2012

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Falques, A.; Van den Berg, N.; Ribas, F.; Caballería, M. "What determines the wavelength of self-organized shoreline sand waves?". En: Proceedings of 33rd Conference on Coastal Engineering, Santander, Spain, 2012. pp. 1 - 12. Coastal Engineering Research Council, 2012. ISBN 978-0-9896611-1-9

**Handle:** <http://hdl.handle.net/2117/18428>





- 23 Title of the work:** Formation of crescentic bars in double sandbar systems  
**Name of the conference:** EGU General Assembly 2012  
**Type of participation:** 'Participatory - poster **Reasons for participation:** Review before acceptance  
**City of event:** Viena, Austria  
**Date of event:** 2012  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
 Calvete, D.; Coco, G.; Ribas, F.; de Swart, H.E. "Formation of crescentic bars in double sandbar systems". En: Geophysical Research Abstracts, vol. 14: Vienna, Austria, 22-27 April, 2011. pp. 1 - 1. 2012. ISBN 1607-7962
- 24 Title of the work:** Wavelength selection mechanism of self-organized shoreline sand waves  
**Name of the conference:** 9th European Fluid Mechanics Conference  
**Type of participation:** Participatory - oral communication **Reasons for participation:** Review before acceptance  
**City of event:** Roma, Italy  
**Date of event:** 2012  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
 Falques, A.; Van den Berg, N.; Ribas, F.; Caballería, M. "Wavelength selection mechanism of self-organized shoreline sand waves". En: EFMC9: 9th European Fluid Mechanics Conference, 9-13 September 2012 University of Rome "Tor Vergata". pp. 1 - 1. 2012.
- 25 Title of the work:** Beach profile evolution for different sediment transport models  
**Name of the conference:** 9th European Fluid Mechanics Conference  
**Type of participation:** Participatory - oral communication **Reasons for participation:** Review before acceptance  
**City of event:** Roma, Italy  
**Date of event:** 2012  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
 Fernandez, M.; Calvete, D.; Falques, A.; Ribas, F. "Beach profile evolution for different sediment transport models". En: EFMC9: 9th European Fluid Mechanics Conference, 9-13 September 2012 University of Rome "Tor Vergata". 2012.
- 26 Title of the work:** Effect of surface rollers on the formation of crescentic bars: large angles of incidence  
**Name of the conference:** 33rd International Conference on Coastal Engineering  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication **Reasons for participation:** Review before acceptance  
**City of event:** Santander, Spain  
**Date of event:** 2012  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
 Calvete, D.; Ribas, F.; de Swart, H.E.; Falques, A. "Effect of surface rollers on the formation of crescentic bars: large angles of incidence". En: Proceedings of 33rd Conference on Coastal Engineering, Santander, Spain, 2012. pp. 1 - 5. Coastal Engineering Research Council, 2012. ISBN 978-0-9896611-1-9



DOI: 10.9753/icce.v33.sediment.51

Handle: <http://hdl.handle.net/2117/17890>

- 27 Title of the work:** Effect of surface rollers on the formation of crescentic bars  
**Name of the conference:** 9th European Fluid Mechanics Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Roma, Italy  
**Date of event:** 2012  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Calvete, D.; Ribas, F.; de Swart, H.E.; Falques, A."Effect of surface rollers on the formation of crescentic bars". En: EFMC9: 9th European Fluid Mechanics Conference, 9-13 September 2012 University of Rome "Tor Vergata". pp. 1 - 1. 2012.
- 28 Title of the work:** On the wavelength of self-organized shoreline sand waves  
**Name of the conference:** EGU General Assembly 2012  
**Type of participation:** 'Participatory - poster  
**Reasons for participation:** Review before acceptance  
**City of event:** Viena, Austria  
**Date of event:** 2012  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Falques, A.; Van den Berg, N.; Ribas, F.; Caballería, M.; Calvete, D."On the wavelength of self-organized shoreline sand waves". En: Geophysical Research Abstracts, vol. 14: Vienna, Austria, 22-27 April, 2011. pp. 1 - 1. 2012. ISBN 1607-7962
- 29 Title of the work:** Large scale instability of sandy coastlines under very oblique wave incidence  
**Name of the conference:** 4th International Symposium Bifurcations and Instabilities in Fluid Dynamics  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Barcelona, Spain  
**Date of event:** 2011  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Falques, A.; Van den Berg, N.; Ribas, F.; Caballería, M."Large scale instability of sandy coastlines under very oblique wave incidence". En: Fourth International Symposium Bifurcations and Instabilities in Fluid Dynamics, 18th-21st July 2011, Barcelona. pp. 1 - 1. International Centre for Numerical Methods in Engineering (CIMNE), 2011.  
**Legal deposit:** B-2843-2011
- 30 Title of the work:** Alternancia de zonas de erosión/acreción a lo largo de la costa provocada por un clima de oleaje con incidencia muy oblicua  
**Name of the conference:** XI Jornadas Españolas de Costas y Puertos  
**Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Las Palmas de Gran Canaria, Spain



**Date of event:** 2011

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Falques, A.; Van den Berg, N.; Ribas, F. "Alternancia de zonas de erosión/acreción a lo largo de la costa provocada por un clima de oleaje con incidencia muy oblicua". En: XI Jornadas Españolas de Costas y Puertos, Las Palmas de Gran Canaria, 5 y 6 de Mayo de 2011. pp. 1 - 2. 2011.

**31 Title of the work:** Modelling the formation of transverse sand bars: application to Duck beach, USA

**Name of the conference:** The 7th Symposium on River, Coastal and Estuarine Morphodynamics

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Pekin, China

**Date of event:** 2011

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A. "Modelling the formation of transverse sand bars: application to Duck beach, USA". En: Proceeding of the 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics. pp. 2160 - 2170. 2011. ISBN 978-7-89444-548-3

**Handle:** <http://hdl.handle.net/2117/15327>

**32 Title of the work:** Effect of surface rollers on the formation crescentic bars

**Name of the conference:** The 7th Symposium on River, Coastal and Estuarine Morphodynamics

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Pekin, China

**Date of event:** 2011

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Calvete, D.; de Swart, H.E.; Ribas, F.; Falques, A. "Effect of surface rollers on the formation crescentic bars". En: Proceeding of the 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics. pp. 2152 - 2159. 2011. ISBN 978-7-89444-548-3

**Handle:** <http://hdl.handle.net/2117/14930>

**33 Title of the work:** Modelling shoreline sand waves: application to the coast of Namibia

**Name of the conference:** The 7th Symposium on River, Coastal and Estuarine Morphodynamics

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Pekin, China

**Date of event:** 2011

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Falques, A.; Van den Berg, N.; Ribas, F.; Caballería, M. "Modelling shoreline sand waves: application to the coast of Namibia". En: Proceeding of the 7th IAHR Symposium on River, Coastal and Estuarine Morphodynamics. pp. 2101 - 2113. 2011. ISBN 978-7-89444-548-3

**Handle:** <http://hdl.handle.net/2117/14928>



- 34 Title of the work:** Shoreline sand waves and beach nourishments  
**Name of the conference:** 32nd International Conference on Coastal Engineering  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** Shanghai, China  
**Date of event:** 2010  
**Publication in conference proceedings:** Yes  
**Reasons for participation:** Review before acceptance  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
 Van den Berg, N.; Falques, A.; Ribas, F."Shoreline sand waves and beach nourishments". En: Proceedings of 32nd Conference on Coastal Engineering, Shanghai, China, 2010. pp. 1 - 10. Coastal Engineering Research Council, 2010.  
**Handle:** <http://hdl.handle.net/2117/12312>
- 35 Title of the work:** Modelling high angle wave instability and the generation of large scale shoreline sand waves  
**Name of the conference:** European Geosciences Union General Assembly 2010  
**Type of participation:** Participatory - oral communication  
**City of event:** Viena, Austria  
**Date of event:** 2010  
**Publication in conference proceedings:** Yes  
**Reasons for participation:** Review before acceptance  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
 Van den Berg, N.; Falques, A.; Ribas, F."Modelling high angle wave instability and the generation of large scale shoreline sand waves". En: Geophysical research abstracts, vol. 12. pp. 1 - 0. 2010. ISBN 1607-7962  
**Handle:** <http://hdl.handle.net/2117/7628>
- 36 Title of the work:** Comparison of modelled nearshore transverse sandbars with field observations  
**Name of the conference:** European Geosciences Union General Assembly 2010  
**Type of participation:** Participatory - oral communication  
**City of event:** Viena, Austria  
**Date of event:** 2010  
**Publication in conference proceedings:** Yes  
**Reasons for participation:** Review before acceptance  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
 Ribas, F.; Calvete, D.; Falques, A."Comparison of modelled nearshore transverse sandbars with field observations". En: Geophysical research abstracts, vol.12. pp. 1 - 1. 2010. ISBN 1607-7962  
**Handle:** <http://hdl.handle.net/2117/7781>
- 37 Title of the work:** Shore nourishments and very oblique wave incidence  
**Name of the conference:** 4th International Short Conference/Course on Applied Coastal Research  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** Barcelona, Spain  
**Date of event:** 2009  
**Publication in conference proceedings:** No  
**Reasons for participation:** Review before acceptance  
**With external admission assessment committee:** Yes



Van den Berg, N.; Falques, A.; Ribas, F. "Shore nourishments and very oblique wave incidence". pp. 0 - 0. 2009.

- 38** **Title of the work:** Effect of large angles of wave incidence on beach nourishments  
**Name of the conference:** 41st International Liège Colloquium on Ocean Dynamics  
**Type of participation:** Participatory - oral communication  
**City of event:** Liège, Belgium  
**Date of event:** 2009  
**Publication in conference proceedings:** Yes  
**Reasons for participation:** Review before acceptance  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Van den Berg, N.; Falques, A.; Ribas, F. "Effect of large angles of wave incidence on beach nourishments". En: Book of abstracts of the 41st International Liège Colloquium on Ocean Dynamics. pp. 1 - 1. 2009.  
**Handle:** <http://hdl.handle.net/2117/7610>
- 39** **Title of the work:** The role of the depth-averaged concentration in coastal morphodynamics  
**Name of the conference:** 6th International Conference on Coastal Dynamics  
**Type of participation:** Participatory - oral communication  
**City of event:** Tokyo, Japan  
**Date of event:** 2009  
**Publication in conference proceedings:** Yes  
**Reasons for participation:** Open access  
**With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Calvete, D.; Falques, A.; de Swart, H.E.; Dodd, N.; Ribas, F.; Garnier, R. "The role of the depth-averaged concentration in coastal morphodynamics". En: Proceedings of coastal dynamics 2009 Impacts of Human Activities on Dynamic Coastal Processes. pp. 0 - 10. World Scientific Publishing Company, 2009. ISBN 978-981-4282-46-8  
**DOI:** 10.1142/9789814282475\_0093  
**Handle:** <http://hdl.handle.net/2117/8404>
- 40** **Title of the work:** The role of surface rollers on the formation of surfzone transverse sand bars  
**Name of the conference:** 6th International Conference on Coastal Dynamics  
**Type of participation:** Participatory - oral communication  
**City of event:** Tokyo, Japan  
**Date of event:** 2009  
**Publication in conference proceedings:** Yes  
**Reasons for participation:** Open access  
**With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A. "The role of surface rollers on the formation of surfzone transverse sand bars". En: Proceedings of coastal dynamics 2009 Impacts of Human Activities on Dynamic Coastal Processes. pp. 1 - 12. World Scientific Publishing Company, 2009. ISBN 978-981-4282-46-8  
**Handle:** <http://hdl.handle.net/2117/6996>  
**DOI:** 10.1142/9789814282475\_0057
- 41** **Title of the work:** Modelling the characteristics and dynamics of surfzone transverse sand bars observed on natural beaches  
**Name of the conference:** 41st International Liège Colloquium on Ocean Dynamics  
**Reasons for participation:** Open access



**Type of participation:** Participatory - oral communication

**City of event:** Liège, Belgium

**Date of event:** 2009

**Publication in conference proceedings:** Yes

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A. "Modelling the characteristics and dynamics of surfzone transverse sand bars observed on natural beaches". En: Book of abstracts of the 41st International Liège Colloquium on Ocean Dynamics. pp. 1 - 1. 2009.

**Handle:** <http://hdl.handle.net/2117/6447>

**42 Title of the work:** The responses of artificial embayed beaches to storm events

**Name of the conference:** 11th Plinius Conference on Mediterranean Storms

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Barcelona, Spain

**Date of event:** 2009

**Publication in conference proceedings:** Yes

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Ojeda, E.; Guillén, J.; Ribas, F. "The responses of artificial embayed beaches to storm events". En: Plinius Conference Abstracts. pp. 1 - 1. 2009.

**Handle:** <http://hdl.handle.net/2117/7780>

**43 Title of the work:** Oleaje con incidencia muy oblicua con respecto a la costa y regeneraciones de playa

**Name of the conference:** X Jornadas Españolas de Costas y Puertos

**Type of event:** Workshop

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Open access

**City of event:** Santander, Spain

**Date of event:** 2009

**Publication in conference proceedings:** Yes

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Falques, A.; Van den Berg, N.; Ribas, F.; Garnier, R. "Oleaje con incidencia muy oblicua con respecto a la costa y regeneraciones de playa". En: X Jornadas españolas de costas y puertos, Santander, 27 y 28 de Mayo de 2009: libro de resúmenes. pp. 255 - 256. 2009.

**44 Title of the work:** Modelling the characteristics and dynamics of surfzone transverse sand bars observed at Noordwijk beach

**Name of the conference:** Dynamics Days Europe 2008

**City of event:** Delft, Holland

**Date of event:** 2008

**Publication in conference proceedings:** Yes

**With external admission assessment committee:** Yes

**Type of contribution:** Scientific paper

Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A. "Modelling the characteristics and dynamics of surfzone transverse sand bars observed at Noordwijk beach". En: Book of abstracts of Dynamics Days Europe 2008. pp. 0 - 0. -,



- 45** **Title of the work:** Topografía rítmica en la playa de Somorrostro (Barcelona): comparación entre medidas topográficas y observaciones de vídeo  
**Name of the conference:** VII Congreso Geológico de España  
**City of event:** Las Palmas de Gran Canaria, Spain  
**Date of event:** 2008  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Ortega, A.; Guillén, J.; Ribas, F."Topografía rítmica en la playa de Somorrostro (Barcelona): comparación entre medidas topográficas y observaciones de vídeo". En: Actas VII Congreso Geológico de España. pp. 0 - 0. F.J. Pérez Torrado, ISBN 1567-5172
- 46** **Title of the work:** The role of depth-averaged concentration in coastal morphodynamics  
**Name of the conference:** European Geosciences Union General Assembly 2008  
**City of event:** Viena, Austria  
**Date of event:** 2008  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Calvete, D.; Falques, A.; de Swart, H.E.; Dodd, N.; Ribas, F.; Garnier, R."The role of depth-averaged concentration in coastal morphodynamics". En: Geophysical Research Abstract, Vol.10. pp. 0 - 0. EGU,
- 47** **Title of the work:** Modelling observed shoreline dynamics of an embayed beach in Barcelona  
**Name of the conference:** European Geosciences Union General Assembly 2008  
**City of event:** Viena, Austria  
**Date of event:** 2008  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Berg, N.; Falques, A.; Ribas, F.; Guillén, E."Modelling observed shoreline dynamics of an embayed beach in Barcelona". En: Geophysical Research Abstract, Vol.10. pp. 0 - 0. EGU,
- 48** **Title of the work:** Q2D-morfo: a medium to long term model for beach morphodynamics  
**Name of the conference:** 5th IAHR Symposium on River, Coastal and Estuarine Morphodynamics (RCEM 2007)  
**City of event:** Enschede, Holland  
**Date of event:** 2007  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Falques, A.; Garnier, R.; Ojeda, E.; Ribas, F.; Guillén, J."Q2D-morfo: a medium to long term model for beach morphodynamics". En: River, Coastal and Estuarine Morphodynamics: RCEM 2007. pp. 71 - 78. Dohmen-Janssen & Hulscher(eds), Taylor & Francis Group,
- 49** **Title of the work:** Comparing observed surfzone transverse finger bars with model results  
**Name of the conference:** 5th IAHR Symposium on River, Coastal and Estuarine Morphodynamics (RCEM 2007)  
**City of event:** Enschede, Holland  
**Date of event:** 2007  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper



Ribas, F.; Calvete, D.; Falques, A.; de Swart, H.E.; Kroon, A. "Comparing observed surfzone transverse finger bars with model results". En: River, Coastal and Estuarine Morphodynamics: RCEM 2007. pp. 713 - 720. Dohmen-Janssen & Hulscher(eds), Taylor & Francis Group,

- 50 Title of the work:** Observation and Modeling of Crescentic Bars in Barcelona Embayed Beaches  
**Name of the conference:** Sixth International Symposium on Coastal Engineering and Science of Coastal Sediment Processes. Coastal Sediments 07  
**City of event:** New Orleans, Luisiana, United States of America  
**Date of event:** 2007  
**Publication in conference proceedings:** Yes      **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; Garnier, R.; Ojeda, E.; Falques, A.; Guillén, J.; Calvete, D. "Observation and Modeling of Crescentic Bars in Barcelona Embayed Beaches". En: Coastal Sediments '07. pp. 2111 - 2123. Nicholas C. Kraus, Julie Dean Rosati, ISBN 0784409269
- 51 Title of the work:** Q2D-morfo: una alternativa a los modelos de N líneas. Aplicación a la playa de la Barceloneta.  
**Name of the conference:** IX Jornadas Españolas de Ingeniería de Costas y Puertos  
**City of event:** San Sebastián, Spain  
**Date of event:** 2007  
**Publication in conference proceedings:** Yes      **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Falques, A.; Ojeda, E.; Ribas, F.; Guillén, J.; Garnier, R. "Q2D-morfo: una alternativa a los modelos de N líneas. Aplicación a la playa de la Barceloneta.". En: IX Jornadas españolas de Ingeniería de Costas y Puertos: Donostia-San Sebastián, 29-30 de mayo de 2007. pp. 0 - 0. AZTI-Tecnalia,
- 52 Title of the work:** Cambios morfológicos de barras submergidas en playas artificiales  
**Name of the conference:** IV Reunión de Geomorfología Litoral  
**Type of event:** RDC  
**City of event:** Palma de Mallorca, Spain  
**Date of event:** 2007  
**Publication in conference proceedings:** Yes      **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Ojeda, E.; Guillén, J.; Ribas, F. "Cambios morfológicos de barras submergidas en playas artificiales". En: Investigaciones recientes (2005-2007) en Geomorfología Litoral. pp. 47 - 50. ed. by Lluís Gómez-Pujol and Joan J. Fornós,
- 53 Title of the work:** Bar and shoreline coupling in artificial embayed beaches  
**Name of the conference:** 30th International Conference on Coastal Engineering (ICCE 2006)  
**Geographical area:** Non EU International  
**City of event:** San Diego, United States of America  
**Date of event:** 2006  
**Publication in conference proceedings:** Yes      **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ojeda, E.; Guillén, J.; Ribas, F. "Bar and shoreline coupling in artificial embayed beaches". En: Proceedings of the 30th International Conference on Coastal Engineering. 3-8 September 2006, San Diego, California, USA. pp. 2714 - 2725. Ed. Jane McKee Smith. World Scientific Publishing Co., ISBN 13 978-981-270-636-2





- 54** **Title of the work:** Observaciones de barras de arena transversales en la playa de Noordwijk (Holanda) con el sistema de cámaras Argus  
**Name of the conference:** VIII Jornadas Españolas de Ingeniería de Costas y Puertos  
**Type of event:** Workshop  
**City of event:** Sitges, Barcelona, Spain  
**Date of event:** 2005  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Ribas, F. "Observaciones de barras de arena transversales en la playa de Noordwijk (Holanda) con el sistema de cámaras Argus". En: VIII Jornadas Españolas de Ingeniería de Costas y Puertos. pp. 1 - 10. Jose A. Jiménez,
- 55** **Title of the work:** Sensitivity of Modeled Nearshore Morphology to Wave and Sediment Transport Formulations  
**Name of the conference:** Fifth Coastal Dynamics International Conference. Coastal Dynamics 2005  
**City of event:** Barcelona, Spain  
**Date of event:** 2005  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Ribas, F.; de Swart, H.E.; Calvete, D.; Falques, A.; Dodd, N.; Leeuwen, S. "Sensitivity of Modeled Nearshore Morphology to Wave and Sediment Transport Formulations". En: Coastal Dynamics 2005. 5th Int. Conf. on Coastal Dynamics. Book of Abstracts. pp. 0 - 0. LIM/UPC,
- 56** **Title of the work:** Generation of nearshore oblique sand bars: sensitivity to sand transport formulation  
**Name of the conference:** Coastal Engineering 2004 (ASCE)  
**Geographical area:** Non EU International  
**City of event:** Lisboa, Portugal  
**Date of event:** 2004  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; Vis-Star, N.; de Swart, H.E.; Falques, A. "Generation of nearshore oblique sand bars: sensitivity to sand transport formulation". En: Coastal Engineering 2004 (ASCE). pp. 2888 - 2900. J. McKee Smith (Ed.), ISBN 978-981-256-298-2
- 57** **Title of the work:** Periodicidad espacial de las barras crecenticas  
**Name of the conference:** VII Jornadas Españolas de Ingeniería de Costas y Puertos  
**City of event:** Almería, Spain  
**Date of event:** 2003  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; Caballería, M.; Coco, G.; Falques, A. "Periodicidad espacial de las barras crecenticas". En: VII Jornadas Españolas de Ingeniería de Costas y Puertos. Libro de Resúmenes. pp. 1 - 1. M.A. Losada y M<sup>a</sup> del C. Castillo / Fundación para el Fomento de la Ingeniería del Agua, ISBN SA-439-2003
- 58** **Title of the work:** Nearshore oblique sand bars as free instabilities of an initially plane beach  
**Name of the conference:** EGS-AGU-EUG Joint Assembly  
**City of event:** Nice, France



**Date of event:** 2003

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Ribas, F.; Falques, A. "Nearshore oblique sand bars as free instabilities of an initially plane beach". En: Geophysical research abstracts, vol. 5. pp. 0 - 0. EGS,

**59 Title of the work:** Instability Mechanism for the Growth of Longshore Sand Bars

**Name of the conference:** AGU Fall Meeting

**City of event:** San Francisco, United States of America

**Date of event:** 2001

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Ribas, F.; Plant, N.; Hulscher, S.; Falques, A. "Instability Mechanism for the Growth of Longshore Sand Bars". En: Eos Transactions. American Geophysical Union, 82(47), Fall Meet. Suppl.. pp. 1 - 1. American Geophysical Union, ISBN 0096-3941

**60 Title of the work:** Asymptotic behaviour of a coupled waveheight-depth model near the coastline

**Name of the conference:** 2nd IAHR Symposium on River, Coastal and Estuarine Morphodynamics (RCEM 2001)

**Type of event:** Workshop

**City of event:** Obihiro, Japan

**Date of event:** 2001

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Hulscher, S.J.M.H.; Falques, A.; Ribas, F.; Plant, N. "Asymptotic behaviour of a coupled waveheight-depth model near the coastline". En: Proceedings of 2nd IAHR Symposium on River, Coastal and Estuarine Morphodynamics. pp. 345 - 354. IAHR,

**61 Title of the work:** Dinámica de las barras sedimentarias en la zona de rompientes y procesos de autoorganización

**Name of the conference:** VI Jornadas Españolas de Ingeniería de Puertos y Costas

**City of event:** Palma de Mallorca, Spain

**Date of event:** 2001

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter

Falques, A.; Caballería, M.; Ribas, F.; Montoto, A. "Dinámica de las barras sedimentarias en la zona de rompientes y procesos de autoorganización". En: VI Jornadas Españolas de Ingeniería de Puertos y Costas: Palma de Mallorca, 17 y 18 de mayo de 2001. pp. 69 - 80. ISBN 84-7632-651-3

**62 Title of the work:** Self-organization in surf zone morphodynamics: alongshore uniform instabilities

**Name of the conference:** Fourth Coastal Dynamics International Conference. Coastal Dynamics 2001

**City of event:** Lund, Sweden

**Date of event:** 2001

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Book chapter



Ribas, F.; Falques, A.; Plant, N.; Hulscher, S. "Self-organization in surf zone morphodynamics: alongshore uniform instabilities". En: Coastal Dynamics'01. pp. 1068 - 1077. Hans Hanson, Magnus Larson (ASCE), ISBN 0-7844-0566-2

- 63** **Title of the work:** Linear stability analysis of the nearshore beach profile  
**Name of the conference:** 2000 Fall Meeting, AGU (American Geophysical Union)  
**City of event:** San Francisco, United States of America  
**Date of event:** 2000  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Plant, N.; Ribas, F.; Falques, A. "Linear stability analysis of the nearshore beach profile". En: EOS , Transactions, American Geophysical union. Fall Meeting Supplement, 2000.. pp. 48 - 48. American Geophysical Union,
- 64** **Title of the work:** Modes normals de la interacció morfodinàmica entre l'onatge incident i la topografia a la zona de rompent  
**Name of the conference:** JORNADES DE DOCTORAT  
**Type of event:** Workshop  
**City of event:** Barcelona, Spain  
**Date of event:** 2000  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; Falques, A.; Montoto, A. "Modes normals de la interacció morfodinàmica entre l'onatge incident i la topografia a la zona de rompent". En: ACTES DE LES JORNADES DE DOCTORAT. pp. 9 - 12. Edicions UPC, ISBN 84-7653-765-4
- 65** **Title of the work:** Normal mode analysis of the surf zone morphodynamics  
**Name of the conference:** 27th International Conference on Coastal Engineering (ICCE 2000)  
**Geographical area:** Non EU International  
**City of event:** Sydney, Australia  
**Date of event:** 2000  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; Falques, A.; Montoto, A. "Normal mode analysis of the surf zone morphodynamics". En: 27th International Conference on Coastal Engineering. Book of Abstracts. pp. 253 - 253. ICCE, ISBN 085825-722-X
- 66** **Title of the work:** Sensitivity of rhythmic oblique bar generation to wave-driven turbulence in the surf-zone  
**Name of the conference:** Advances in Turbulence VIII  
**City of event:** Barcelona, Spain  
**Date of event:** 2000  
**Publication in conference proceedings:** Yes **With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Ribas, F.; Montoto, A.; Falques, A. "Sensitivity of rhythmic oblique bar generation to wave-driven turbulence in the surf-zone". En: Advances in Turbulence VIII. pp. 375 - 378. CIMNE. Ed. Dopazo, ISBN 84-89925-65-8



- 67** **Title of the work:** Interaction between wave-drive currents and morphology in the surf zone  
**Name of the conference:** XXV European Geosciences Union: General Assembly  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Open access  
**City of event:** Nice, France  
**Date of event:** 2000  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Book chapter  
Falques, A.; Ribas, F.; Montoto, A."Interaction between wave-drive currents and morphology in the surf zone". En: Geophysical research abstracts : General Assembly. pp. 0 - 0. European Geosciences Union (EGU), 2000. ISBN 1026-7006
- 68** **Title of the work:** Nearshore oblique bars. Modelling versus observations at the Truc Vert Beach  
**Name of the conference:** 1st IAHR Symposium on River, Coastal and Estuarine Morphodynamics (RCEM 1999)  
**City of event:** Genova, Italy  
**Date of event:** 1999  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Falques, A.; Ribas, F.; Larroude, F.; Montoto, A."Nearshore oblique bars. Modelling versus observations at the Truc Vert Beach". En: PROCEEDINGS OF I.A.H.R. SYMPOSIUM. pp. 207 - 216. UNIVERSITY OF GENOVA,
- 69** **Title of the work:** Driving mechanisms for surf zone morphological patterns  
**Name of the conference:** Euromech 395: Coastal estuarine and river forms  
**Type of participation:** Participatory - oral communication  
**City of event:** Enschede, Holland  
**Date of event:** 1999  
**Publication in conference proceedings:** No  
**With external admission assessment committee:** Yes  
Ribas, F."Driving mechanisms for surf zone morphological patterns". pp. 0 - 0. 1999.

### Works submitted to national or international seminars, workshops and/or courses

**Title of the work:** Hydro- and morphodynamics of coastal seas and estuaries  
**Name of the event:** Hydro- and morphodynamics of coastal seas and estuaries  
**City of event:** Motril, Spain  
**Date of event:** 2007  
**Publication in conference proceedings:** No  
**Type:** Scientific-technical report  
Ribas, F.. "Hydro- and morphodynamics of coastal seas and estuaries".



## R&D management and participation in scientific committees

### Organization of R&D activities

**Title of the activity:** Linear stability analysis in coastal morphodynamics: essential or useless?

**Type of activity:** Course

**City of event:** Barcelona, Spain

**Type of participation:** Organiser

**Start date:** 2010

## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Institut de Ciències del Mar (ICM) - CSIC      **Type of entity:** R&D Centre  
**City of entity:** Barcelona, Catalonia, Spain  
**Start-End date:** 01/01/2005 - 31/08/2007      **Duration:** 2 years - 8 months  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Continuar el desenvolupament d'un model numèric d'anàlisi d'estabilitat lineal per l'estudi teòric de l'evolució de les barres de sorra de les platges. Estudi experimental (mitjançant campanyes de mesura i imatges de vídeo) i estudi teòric (mitjançant modelat numèric) de la morfodinàmica de les platges de Barcelona.
- 2** **Entity:** Institute for Marine and Atmospheric Research (IMAU)      **Type of entity:** R&D Centre  
**City of entity:** Utrecht, Holland  
**Start-End date:** 01/02/2004 - 31/12/2004      **Duration:** 11 months  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Col·laborar en el desenvolupament d'un model numèric d'anàlisi d'estabilitat lineal per l'estudi teòric de l'evolució de les barres de sorra de les platges. Estudi experimental (mitjançant campanyes de mesura i imatges de vídeo) i estudi teòric (mitjançant modelat numèric) de la dinàmica de les barres de sorra de les platges de Noordwijk, Holanda.
- 3** **Entity:** Naval Research Laboratory      **Type of entity:** R&D Centre  
**City of entity:** Stennis Space Center, United States of America  
**Start-End date:** 27/10/2001 - 09/12/2001      **Duration:** 1 month - 13 days  
**Goals of the stay:** Doctorate  
**Provable tasks:** Continuar el projecte de recerca sobre la dinàmica dels perfils transversals de les platges i la formació de barres longitudinals.
- 4** **Entity:** University of Twente      **Type of entity:** University  
**City of entity:** Enschede, Holland  
**Start-End date:** 18/10/2000 - 10/12/2000      **Duration:** 1 month - 23 days  
**Goals of the stay:** Doctorate  
**Provable tasks:** Començar un projecte de recerca sobre la dinàmica dels perfils transversals de les platges i la formació de barres longitudinals.



- 5 Entity:** Centre National de la Recherche Scientifique **Type of entity:** R&D Centre  
**City of entity:** France  
**Start-End date:** 01/07/1998 - 30/09/1998 **Duration:** 3 months  
**Goals of the stay:** Others  
**Provable tasks:** Realitzar un projecte de recerca sobre dipòsits de capes fines mitjançant tècniques experimentals (escrivint una memòria al finalitzar).

## Obtained grants and scholarships

- 1 Name of the grant:** Juan de la Cierva  
**City awarding entity:** 28027 Madrid, Spain  
**Aims:** Post-doctoral  
**Awarding entity:** Ministerio de Ciencia e Innovación **Type of entity:** State agency  
**Amount of the grant:** 91.080 €  
**Conferral date:** 01/01/2005 **Duration:** 2 years - 8 months  
**End date:** 31/08/2007
- 2 Name of the grant:** Beca FI - Generalitat de Catalunya per a la formació de personal investigador  
**City awarding entity:**  
**Aims:** Pre-doctoral  
**Awarding entity:** Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR) **Type of entity:** Entidad autonómica  
**Amount of the grant:** 40.171 €  
**Conferral date:** 01/01/1999 **Duration:** 4 years  
**End date:** 31/12/2002
- 3 Name of the grant:** Realització d'una estada de recerca predoctoral i participació en el congrés American Geophysical Union 2001 Fall Meeting (San Francisco, EEUU).  
**City awarding entity:**  
**Aims:** Pre-doctoral  
**Awarding entity:** Office of Naval Research International Field Office **Type of entity:** R&D Centre  
**Amount of the grant:** 3.390,56 €  
**Conferral date:** 27/10/2001 **Duration:** 1 month - 19 days  
**End date:** 15/12/2001
- 4 Name of the grant:** Realització d'una estada de recerca predoctoral  
**City awarding entity:**  
**Aims:** Pre-doctoral  
**Awarding entity:** Agència de Gestió d'Ajuts Universitaris i de Recerca (Agaur) **Type of entity:** Public Research Body  
**Amount of the grant:** 1.592,68 €  
**Conferral date:** 27/10/2001 **Duration:** 1 month - 19 days  
**End date:** 15/12/2001
- 5 Name of the grant:** Realització d'una estada de recerca predoctoral.  
**City awarding entity:**  
**Aims:** Pre-doctoral  
**Awarding entity:** Agència de Gestió d'Ajuts Universitaris i de Recerca (Agaur) **Type of entity:** Public Research Body



**Amount of the grant:** 1.117,88 €  
**Conferral date:** 18/10/2000  
**End date:** 03/12/2000

**Duration:** 1 month - 16 days

### Periods of research activity

**1** **Nº of recognized periods:** 1

**Date of recognition:** 01/01/2012

**2** **Nº of recognized periods:** 1

**Geographical area:** Regional

**Certifying entity:** AQU - Agència de la Qualitat  
Universitària de Catalunya

**Type of entity:** State agency

**City certifying entity:** Barcelona, Catalonia, Spain

**Date of recognition:** 01/01/2012

### Obtained accreditations/recognitions

**1** **Description:** ACREDITACIÓ DE RECERCA, AQU

**Accrediting entity:** AQU - Agència de la Qualitat  
Universitària de Catalunya

**Type of entity:** State agency

**City accrediting entity:** Barcelona, Catalonia, Spain

**Date of recognition:** 14/03/2013

**2** **Description:** CONTRACTAT DOCTOR, ANECA

**Accrediting entity:** Agencia Nacional de Evaluación  
de la Calidad y Acreditación (ANECA) **Type of entity:** R&D Centre

**City accrediting entity:** Madrid, Community of Madrid, Spain

**Date of recognition:** 11/07/2012

**3** **Description:** AJUDANT DOCTOR, ANECA

**Accrediting entity:** Agencia Nacional de Evaluación  
de la Calidad y Acreditación (ANECA) **Type of entity:** R&D Centre

**City accrediting entity:** Madrid, Community of Madrid, Spain

**Date of recognition:** 25/03/2008

### Summary of other achievements

**Description of the achievement:** Mèrits de recerca. Revisora de les revistes de Q1 del JCR:

- Journal of Geophysical Research
- IEEE Transactions on Geoscience and Remote Sensing

Docència de postgrau impartida en cursos d'estiu:

Juny 2007: International Summer School 'Hydro- and Morphodynamics of Coastal Seas and Estuaries', Motril, Espanya (14 dies); la candidata va exercir de supervisora de projectes.

Direcció de treballs de recerca:

La candidata ha co-dirigit un total de 6 projectes de recerca de 6 mesos d'estudiants de màster de la Universitat de Utrecht (Holanda).



Assistència a cursos d'interès científic:

Juliol 2003: International Summer Course 'Hydro- and Morphodynamics of Coastal Seas and Estuaries', Renesse, Holanda (14 dies)

Setembre 2000: 10th National Summer School about Geophysical and Environmental Fluid Dynamics, Department of Applied Mathematics and Theoretical Physics, Cambridge University, Gran Bretanya (14 dies)

Desembre 1998: Seminari d'introducció als algorismes genètics, Centre de Supercomputació de Catalunya (2 dies)

**Conferral date:** 12/12/2008