

Βιογραφικό Σημείωμα

Αντώνης Φ. Βελεγράκης

Εθνικότητα: Ελληνική

Διεύθυνση: Τμήμα Ωκεανογραφίας και Θαλάσσιων Βιοεπιστημών, Πανεπιστήμιο Αιγαίου, Λόφος Πανεπιστημίου, Μυτιλήνη, Ελλάδα 81100, afv@aegean.gr

Επαγγελματική Προϋπηρεσία

12/2008- Σήμερα: Καθηγητής, Αναπληρωτής Πρόεδρος Τμήματος (2013-2017) και Διευθυντής Μεταπτυχιακών Σπουδών, Τμήμα Επιστημών της Θάλασσας (ΤΕΘ), Σχολή Περιβάλλοντος, Πανεπιστήμιο Αιγαίου (ΠΑΕΚ), Ελλάδα (κατά τις περιόδους 3/2009-8/2009, 3/2013-8/2013 και 9/2019-2/2020) σε εκπαιδευτική άδεια στο DEWA-GRID, UNEP, Γενεύη και Πανεπιστήμιο της Γενεύης

3/2002-11/2008: Αναπληρωτής Καθηγητής, Αναπληρωτής Πρόεδρος Τμήματος (2003-2009) και Διευθυντής Μεταπτυχιακών Σπουδών (2007-2009), ΤΕΘ UAEGEAN

10/2000-3/2002: Ανώτερος Ερευνητής και Λέκτορας, Σχολή Ωκεανών και Επιστημών της Γης (SOES), Εθνικό Κέντρο Ωκεανογραφίας του Πανεπιστημίου του Σαουθάμπτον, Σαουθάμπτον (NOCS), Ηνωμένο Βασίλειο

5/1995-10/2000: Ερευνητής SOES, Εθνικό Κέντρο Ωκεανογραφίας του Πανεπιστημίου του Σαουθάμπτον, Σαουθάμπτον (NOCS), Ηνωμένο Βασίλειο

4/1994-4/1995: Επιστημονικός Συνεργάτης, Τμήμα Ωκεανογραφίας, Πανεπιστήμιο του Σαουθάμπτον

5/1990-3/1994: Βοηθός Έρευνας, Τμήμα Ωκεανογραφίας, Πανεπιστήμιο του Southampton, Ηνωμένο Βασίλειο

1/1986-2/1987: Υδρογράφος πεδίου, Ελληνικό Ναυτικό (Στρατιωτική Υπηρεσία)

7/1983-8/1985: Βοηθός Έρευνας, Τμήμα Θαλάσσιας Γεωλογίας, Εθνικό Ινστιτούτο Γεωλογικών και Μεταλλευτικών Ερευνών (ΕΓΜΕ), Αθήνα (Ελλάδα)

Ανώτερη Εκπαίδευση

10/1997-9/1999: LL.M (Μεταπτυχιακό στις Νομικές Σπουδές) στη Νομοθεσία για το Περιβάλλον και το Δίκαιο Θάλασσας, Νομική Σχολή, Πανεπιστήμιο του Σαουθάμπτον, Ηνωμένο Βασίλειο

- 12/1988-8/1994: Διδακτορικό στην Ωκεανογραφία. Πανεπιστήμιο του Σαουθάμπτον, Ηνωμένο Βασίλειο
- 12/1987-10/1988: Μεταπτυχιακό Δίπλωμα στην Προγραμματισμό Υπολογιστών και Ανάλυση Συστημάτων, Ελληνικό Κέντρο Παραγωγικότητας, Αθήνα, Ελλάδα
- 10/1981-6/1985: Μεταπτυχιακό Ενδεικτικό Ωκεανογραφίας (MSc), Σχολή Θετικών Επιστημών, Πανεπιστήμιο Αθηνών (Ελλάδα)
- 9/1976-6/1981: Πτυχίο (BSc) στη Γεωλογία, Σχολή Θετικών Επιστημών, Πανεπιστήμιο Θεσσαλονίκης (Ελλάδα)

Ερευνητικά Ενδιαφέροντα & Εμπειρία

Θαλάσσια ιζηματολογία, παράκτια δυναμική και ευπάθεια στις κλιματικές αλλαγές, τεχνικές παρακολούθησης των ακτών, θαλάσσιοι ορυκτοί πόροι, ανθρωπογενείς επιπτώσεις σε παράκτια περιβάλλοντα και υποδομές, θεωρία και πρακτική της εκτίμησης περιβαλλοντικών επιπτώσεων στη θάλασσα

- Συμμετοχή ως επιστημονικός Συντονιστής/κύριος ερευνητής σε πολλά Ευρωπαϊκά ερευνητικά έργα του UAEGEAN (FP5-TMR EUMARSAND, INTERREG CORI, FP7-PERSEUS, FP7-COCONET, H2020 ECFAS, INTERREG-BEACHTECH, H2020 CLIM-AURA) και του Πανεπιστημίου του Southampton (FP5-DELOS, FP5-INTERPOL, MTP II- MATER, TMR-SWAMIEE, FP4-INDIA, FP3 FLUXMANCHE II, FP3-PELAGOS και FP2-FLUXMANCHE I).
- Συμμετοχή ως επιστημονικός Συντονιστής/κύριος ερευνητής σε πολλά Διεθνή και Εθνικά ερευνητικά έργα του Πανεπιστημίου του Southampton (π.χ. UK NERC-AUTOSUB MISSIONS, UK MAFF-EMPHASYS 1 & 2, WWF-SANDBANKS κ.ά.)
- Συμμετοχή ως συντονιστής και/ή κύριος ερευνητής σε μεγάλα εθνικά ερευνητικά έργα του Πανεπιστημίου Αιγαίου (AEGIS+, AEGIS, EraBeach EEA, THALES-ISLA, THALES-MARE, COOPERATION II- BeachTour, COOPERATION I –ΑΚΤΑΙΑ) • Συμμετοχή ως ερευνητής και/ή κύριος επιστήμονας σε πάνω από 20 μεγάλες ωκεανογραφικές αποστολές στο Βόρειο Ατλαντικό, στις θάλασσες Βόρειο και Βαλτική, στη Μάγχη, στη Μεσόγειο και στο Αιγαίο.

Διδακτική Εμπειρία

A. Προπτυχιακές Σπουδές

- 10/2002-Σήμερα: Συντονιστής, διδάσκων και εξεταστής των μαθημάτων «Θαλάσσια Γεωλογία», «Παράκτια Γεωλογία» και «Δυναμική Ιζημάτων και Ακτών» στο ΤΩΘΕ, Πανεπιστήμιο Αιγαίου, και διδάσκων/εξεταστής του μαθήματος «Δίκαιο Θάλασσας»
- 1997-2001: Διδάσκων/εξεταστής (1998-1999, συντονιστής) των μαθημάτων «Εφαρμοσμένη Δυναμική Ιζημάτων» (OC310) και «Ιζηματογενή Περιβάλλοντα» (OC206) στη Σχολή Γήινων και Θαλάσσιων Επιστημών, Πανεπιστήμιο Σαουθάμπτον

Β. Μεταπτυχιακές Σπουδές

- 2002-Σήμερα: Διδάσκων/εξεταστής των μαθημάτων «Βιογεωχημικές Διαδικασίες», και «Παράκτοες Γεω-επικινδυνότητες ια Μηχανική» στο ΠΜΣ «Ολοκληρωμένη Διαχείριση Παράκτιων Περιοχών» Πανεπιστήμιο Αιγαίου. Συντονιστής/Διδάσκων/εξεταστής «Διεθνείς και Ευρωπαϊκές πολιτικές και νομοθεσία για τη Διαχείριση Ακτών»
- 1997-2001: Διδάσκων/εξεταστής (1998-1999 συντονιστής μαθήματος) του μαθήματος «Εφαρμοσμένη Δυναμική Ιζημάτων» (OC616) των MSc (Ωκεανογραφίας) και MSc (Πολιτικών και Παραλιακών Μηχανικών) του Πανεπιστημίου του Southampton

Γ. Επίβλεψη Διατριβών

Επιβλέπων σε 5 ολοκληρωμένες διδακτορικές διατριβές στο ΤΩΘΒΕ και συνεπιβλέπων σε 1 ολοκληρωμένη διδακτορική διατριβή στο SOES, NOCS. Αυτή τη στιγμή, επόπτης σε 3 διδακτορικές διατριβές στο ΤΩΘΒΕ. Επιβλέπων σε 23 μεταπτυχιακές διατριβές στο ΤΩΘΒΕ και 5 μεταπτυχιακές διατριβές στο SOES, NOCS. Επιβλέπων σε 28 προπτυχιακές διατριβές στο ΤΩΘΒΕ και 8 προπτυχιακές διατριβές στο SOES, NOCS.

Δ. Εκπαιδευτικές επισκέψεις

Διαλέξεις στο Ευρωπαϊκό MSc ERASMUS MUNDUS Marine Environmental Resources (San Sebastian και Plentzia, Ισπανία) (2011-2024). Διαλέξεις στο Πανεπιστήμιο της Ναντζίνγκ (Κίνα), Νοέμβριος 2014 και στο Πανεπιστήμιο του Rhode Island (2018). Το 1998 και το 2005, διαλέξεις στο μάθημα «Παράκτια Ιζηματογενή Περιβάλλοντα» του Τμήματος Γεωλογίας και Ωκεανογραφίας του Université Bordeaux-I (Γαλλία) (SOCRATES)

Διοικητική Εμπειρία

- Αναπληρωτής Πρόεδρος ΤΩΘΒΕ Πανεπιστημίου Αιγαίου
- Διευθυντής Μεταπτυχιακών Σπουδών ΤΩΘΒΕ Πανεπιστημίου Αιγαίου
- Μέλος της Επιτροπής Έρευνών Πανεπιστημίου Αιγαίου (2005-2008 και 2014-2018)
- Μέλος της Σύγκλητου του Πανεπιστημίου Αιγαίου (2006-2008, 2017-2018)
- Τμηματικός Εκπρόσωπος του προγράμματος SOCRATES-ERASMUS (2003-2007)
- Πρόεδρος/Μέλος πολυάριθμων Επιτροπών της Σχολής Περιβάλλοντος, Πανεπιστήμιο Αιγαίου και Μέλος ερευνητικών επιτροπών του SOES NOCS

Άλλες σχετικές πληροφορίες

- Υποτροφία από το Ίδρυμα Α.Σ. Ωνάση για διατριβή PhD

- Κριτής επιστημονικών άρθρων που υποβάλλονται σε διεθνή περιοδικά (π.χ. Sedimentology, Marine Geology, Continental Shelf Research, Progress in Oceanography, Journal of Coastal Research)
- Μέλος Συντακτική Επιτροπής των περιοδικών Water και Anthropocene Coasts
- Επισκέπτης Ερευνητής στο Εθνικό Κέντρο Ωκεανογραφίας, Σαουθάμπτον
- Μέλος της Γεωλογικής Εταιρείας του Λονδίνου
- Επιστημονικός εμπειρογνώμονας στα Αγγλικά Δικαστήρια
- Προσκεκλημένος ομιλητής σε Διεθνή Συνέδρια, πρόεδρος συνόδων σε Διεθνή Επιστημονικά Συνέδρια
- Συμβολή ως συγγραφέας στα Κεφάλαια 3 και 4 της Έκθεσης IPCC SREX (2012)
- Επιστημονικός σύμβουλος σε Διεθνείς Οργανισμούς (π.χ. UNEP-GRID, UNEP-MAP, UNECE, UNFCCC, World Wide Fund WWF)) και σε Εθνικούς Οργανισμούς, π.χ. Υπουργεία του Ηνωμένου Βασιλείου (DETR, MAFF, Welsh Office), HM Customs and Excise και τοπικές αρχές του Ηνωμένου Βασιλείου και της Ελλάδας καθώς και σε βιομηχανίες (π.χ. BP Exploration Operating Company, Elf Caledonia Enterprise Ltd και εταιρείες θαλάσσιων αδρανών (ENNEMIX, Severn Sands και ARC)

Δημοσιεύσεις

A. Βιβλία/Κεφάλαια Βιβλίων

- Chatzistratis D., Monioudi I.N., **Velegrakis A.F.**, Chalazas T., TragoU E., **2024**. Exposure to coastal erosion and flooding in the northeastern Aegean islands, Greece CIESM Workshop Monographs 52, 115-130.
- Velegrakis AF**, Monioudi IN, Tzoraki O, et al., **2024**. Coastal hazards and related impacts in Greece. In: Darques, R., Sidiropoulos, G., Kalabokidis, K. (eds) The Geography of Greece. World Regional Geography Book Series. Springer, Cham. https://doi.org/10.1007/978-3-031-29819-6_21
- Peduzzi, P., **Velegrakis, A.F.**, Estrella, M. And Chatenoux, B. **2013**. Integrating the role of ecosystems in disaster risk and vulnerability assessments: Lessons from the Risk and Vulnerability Assessment Methodology Development Project (RiVAMP) in Negril Jamaica. In FG Renaud et al., (eds), The role of Ecosystems in Disaster Risk Reduction, United Nations University Press (ISBN 978-9280812213), 109-139.
- Monioudi, I., **Velegrakis, A.F.**, Karambas, Th., Koutsouvela, D., **2009**. Coastal retreat due to the sea level rise: morphodynamic models predictions. Bulletin of the Geological Society of Greece, XLII/1, 153-170. (In Greek with English abstract)
- Velegrakis, A.F.**, **2008**. Erosion of Greek beaches. In I. Efthymiopoulos and M. Modianos (Eds), The Marine Environment, DIPE, Greek Letters Publishing Company, Athens, 155-167. (In Greek).
- Velegrakis, A.F.**, Collins, M.B., Bastos, A.C., Paphitis, D., and Brampton, A., **2007**. Seabed sediment transport pathway investigations: review of scientific approach and methodologies. In P.S. Balson and M.B. Collins (Eds), Coastal and Shelf Sediment Transport, Geological Society of London Special Publication, 274, 127-146.
- Velegrakis, A.F.**, Vousdoukas, M.I. and Meligoniitis, R., **2005**. Beach erosion: Phenomenology and causes of the degradation of the greatest natural resource of the Greek Archipelago In: Tsaltas, The Greek Archipelago in the 21st Century, Vol. I, Sideris Publications, pp. 243-262 (In Greek with English Abstract)
- Velegrakis, A.F.**, **2000**. Geology, Geomorphology and Sediments of the Solent Estuarine System. In Collins, M.B. & Ansell, K., (Eds.): Solent Science-A Review. Proceedings in Marine Science Series, Elsevier, Amsterdam, pp.21-43.
- Velegrakis, A.F.**, Dix, J.K., and Collins, M.B., **2000**. The evolution of the upper reaches of the Solent River, southern England. In Collins, M.B. & Ansell, K., (Eds.): Solent Science-A Review. Proceedings in Marine Science Series, Elsevier, Amsterdam, pp. 97-100.
- Velegrakis, A.F**, Brampton, A., Evans, C.D.R. and Collins, M.B., **2000**. Seabed mobility studies in the Solent region. In Collins, M.B. & Ansell, K., (Eds.): In Collins, M.B. & Ansell, K., (Eds.): Solent Science-A Review. Proceedings in Marine Science Series, Elsevier, Amsterdam pp. 111-115.

Paphitis, D., **Velegrakis, A.F.** and Collins, M.B., **2000**. Residual circulation and associated sediment transport in the Eastern Approaches to the Solent. In Collins, M.B. & Ansell, K., (Eds.): In Collins, M.B. & Ansell, K., (Eds.): Solent Science-A Review. Proceedings in Marine Science Series, Elsevier, Amsterdam, 107-110.

Brampton, A., Evans, C.D.R. and **Velegrakis A.F.**, **1998**. South Coast Mobility Study, CIRIA PR 65, London. 219 pp.

B. Διεθνή Περιοδικά

- Stamatiadou V., Mazaris A.D., Sidera P, Chalazas T., Velegrakis A.F., Katsanevakis S., 2026. Valuing and mapping cultural ecosystem services in coastal areas: an integrated approach applied to recreational seascape tourism in Greece. *Ecosystems Services* 80 101869. <https://doi.org/10.1016/j.ecoser.2026.101869>
- Chalazas T., Chatzistratis D., Stamatiadou V., Monioudi I.N., Katsanevakis S. **Velegrakis A.F.**, **2026**. Integrated Coastal Zone Management in the Face of Climate Change: A Geospatial Framework for Erosion and Flood Risk Assessment. *Water* 18 (2), 284.
- Monioudi I., Velegrakis A., Polydoropoulou A., Chatzistratis D., Moschopoulos K., Bouhouras E., Papaioannou G., Chalazas T., et al. 2025. Rankng port criticality under climate change: An assessment of Greece. *Sustainability* 17 (24), 1113
- Monioudi I., Chatzistratis D., Moscopoulos K., **Velegrakis A.F.**, Polydoropoulou A., Chalazas T., Bouhouras E., Papaioannou G., Karakikes I., Thanopoulou E., **2025**. Exposure of Greek ports to marine flooding and extreme heat under Climate Change: an assessment. *Water* 17 (13), 1897
- Polydoropoulou A., **Velegrakis A.**, Papaioannou G. Karakikes I, Bouhouras E., Thanopoulou E., Chatzistratis D., Monioudi I., Moschopoulos K., Chatzipavlis A., **2025** A composite port resilience index focused on climate-related hazards: Results from Greek ports' living-labs *Maritime Transport Research* 9, 100136, <https://doi.org/10.1016/j.martra.2025.100136>.
- Stamatiadou V., Mazaris A.D., Chalazas T., **Velegrakis A.F.**, Katsanevakis S., **2025**. Are the Greek beaches accessible to all? Economic valuation and mapping of recreational ecosystem services for wheelchair users. *Marine Policy* 180, 106805, <https://doi.org/10.1016/j.marpol.2025.106805> .
- Chatzistratis D., **Velegrakis A.F.**, Chalazas T., Alves B. Schiavon E., Monioudi I., Armaroli C., **2025**. European Early Warning Systems for coastal floods: User needs, system availability and pertinent policy and legislation. *International Journal of Disaster Risk Reduction* 105602 <https://doi.org/10.1016/j.ijdrr.2025.105602>
- Chatzistratis D., Chatzipavlis A.E., Monioudi I.N., **Velegrakis A.F.**, Andreadis O.P., Psarros F., and Petsimeris I., **2025**. Surf and swash zone dynamics from high frequency 2 observations at a microtidal, low energy dissipative beach. *Journal of Marine Science and Engineering*, 13 (5) 861.
- Evagorou, E., Hasiotis, T., Petsimeris, I.T., Monioudi, I.N., Andreadis, O.P., Chatzipavlis, A., Christofi, D., Kountouri, J., Stylianou, N., Mettas, C., **Velegrakis. A.** and Hadjimitsis D., **2025**. et al. A Holistic High-Resolution Remote Sensing Approach for Mapping Coastal Geomorphology and Marine Habitats. *Remote Sens.* 2025, 17, 1437. <https://doi.org/10.3390/rs17081437>
- Wu J., Chen X., Dong L., Tan N., Liu X., Chatzipavlis A., Yu P.J.H., **Velegrakis A.**, Wang Y., Huang Y., Cheng H., Wang D., **2025**. Dissolved Oxygen Prediction in the Dianchi River Basin with Explainable Artificial Intelligence based on Physical Prior Knowledge. *Environmental Modelling & Software*, 106412. <https://doi.org/10.1016/j.envsoft.2025.106412>.
- Monioudi, I.N.; Chatzistratis, D.; Chalazas, T.; Chatzipavlis, A.E.; **Velegrakis, A.F.**; Andreadis, O.P.; Monioudis, E.N.; Nikolaou, A.; Hasiotis, T., **2025**. A Prioritization Framework for Adaptation Responses for Climate Change-Induced Erosion in Island Beaches—Cases from the Aegean Islands, Greece. *J. Mar. Sci. Eng.* 2025, 13, 491. <https://doi.org/10.3390/jmse13030491>.
- Hasiotis, T.; Petsimeris, I.; Chtouris, N.K.; Andreadis, O.; **Velegrakis A.**, and Mettas, C., **2024**. Marine sand borrows in western Cyprus: Distribution and potential prospects. In: Phillips, M.R.; Al-Na emi, S., and Duarte, C.M. (eds.), *Coastlines under Global Change*. *Journal of Coastal Research*, Special Issue 2024 113, 80 - 84. ISSN 0749-0208.
- Asariotis R.A., Monioudi I.N., Mohos Naray V., Velegrakis A.F., Vousdoukas M.I., Mentaschi L., Feyen L., **2024**. Climate change and seaports: hazards, impacts and policies and legislation for adaptation. *Anthropocene coasts* 7, 14 (<https://doi.org/10.1007/s44218-024-00047-9>

- Manoutsoglou E., Hasiotis T., **Velegrakis A.F.**, 2024. Holocene records of oyster reefs in a shallow semi-enclosed island embayment of the Aegean Sea. *Estuarine, Coastal and Shelf Science* 302,108781, ISSN 0272-7714, <https://doi.org/10.1016/j.ecss.2024.108781>.
- Kontopyrakis K.E., **Velegrakis A.F.** Monioudi I.N., Čulibrk A., 2024. Prioritizing environmental policies in Greek coastal municipalities. *Anthropocene Coasts* 7, 1 <https://doi.org/10.1007/s44218-023-00035-5>
- Velegrakis A.F, Chatzistratis D., Chalazas T., Armaroli C., Schiavon E., Alves B., Grigoriadis D., Hasiotis T., Ieronymidi E., 2024. Earth observation technologies, policies and legislation for the coastal flood risk assessment and management: a European perspective *Anthropocene Coasts* 7, 3. <https://doi.org/10.1007/s44218-024-00037-x>
- Chalazas, T., Bove, G., Chatzistratis, D., Monioudi I., **Velegrakis A.F.**, 2024. A system for the management of sandy shorelines under climate change: United States Virgin Islands (USVI). *Ambio* 53, 406 - 420. <https://doi.org/10.1007/s13280-023-01946-w>
- Monioudi I.N., **Velegrakis A.F.**, Chatzistratis D., Vousdoukas M.I., Savva C., Wang D., Bove G., Mentaschi L., Paprotny D., Morales-Nápoles O., Chatzipavlis A.E., Hasiotis T., Manoutsoglou E., 2023. Climate change - induced hazards on touristic island beaches : Cyprus, Eastern Mediterranean, *Frontiers in Marine Science* 10: 1188896. [doi: 10.3389/fmars.2023.1188896](https://doi.org/10.3389/fmars.2023.1188896)
- Joumar N., Nabih S., Chatzipavlis A., **Velegrakis A.**, Hasiotis T., Tzoraki O., Stitou, E. Messari, J.E., Benaabidate L., 2023. A Qualitative Assessment of RiverPlumes Coupling SWAT Model Simulations and a Beach Optical Monitoring System, 2023. *Hydrology*, 10, 38. <https://doi.org/10.3390/hydrology10020038>
- Tsabarlis C., Zervakis V., Saitanis S., Patiris D., Pappa F., **Velegrakis A.**, Alexakis S., Kioroglou S., 2023. In Situ Radioactivity Measurements and Water Flow Characteristics of a Thermal Spring in Gera Gulf, Lesvos Island, Greece. *J. Mar. Sci. Eng.* 11(4), 801; <https://doi.org/10.3390/jmse11040801>
- Monioudi I.N., and **Velegrakis A.F.**, 2022. Beach Carrying Capacity at Touristic 3S Destinations: Its Significance, Projected Decreases and Adaptation Options under Climate Change. *Journal Of Tourism and Hospitality* 11, 500.
- Peduzzi, P., **Velegrakis, A.**, Chatenoux, B., Estrella, M., Karambas, T., 2022. Assessment of the role of nearshore marine ecosystems to mitigate beach erosion: The case of Negril (Jamaica). *Environments*, 9, 62. <https://doi.org/10.3390/environments9050062>
- Andreadis, O., Chatzipavlis, A., Hasiotis, T., Monioudi, I., Manoutsoglou, E., **Velegrakis, A.**, 2021. Assessment of and Adaptation to Beach Erosion in Islands: An Integrated Approach. *J.Mar. Sci. Eng.* 9, 859. <https://doi.org/10.3390/jmse9080859>.
- Hasiotis T., Gazis I.-Z., Anastasatou M., Manoutsoglou E., **Velegrakis A.F.**, Kapsimalis V., Karditsa A., Stamatakis A., 2021. Searching for potential marine sand resources to mitigate beach erosion in island settings. *Marine Georesources and Geotechnology*, 39 (5), 527 - 542 <https://doi.org/10.1080/1064119X.2020.1721623>.
- Panagou T., Hasiotis T., **Velegrakis A.F.**, Karambas T.V., Oikonomou E., and Dimitriadis C., 2020. Erosion status of a sea cliff promontory bounding an ecologically important beach. *Journal of Coastal Conservation*, 24, 39 <https://doi.org/10.1007/s11852-020-00756-6>
- Panagou P., Oikonomou E., Hasiotis T., **Velegrakis A.F.**, 2020. Shallow Water Bathymetry Derived from Green Wavelength Terrestrial Laser Scanner. *Marine Geodesy*, DOI: 10.1080/01490419.2020.1737602
- Chatzipavlis A., Tsekouras G.E. Trygonis V., **Velegrakis A.F.**, Tsimikas J., Rigos A., Hasiotis T., Salmas C., 2019. A novel backtracking search algorithm for optimizing a neuro-fuzzy network to model beach realignment. *Neural Computing and Applications* 31 (6), 1747-1763 (<https://doi.org/10.1007/s00521-018-3809-2>)
- Monioudi I., N., Asariotis R., Becker A., Bhat C., Dowding-Gooden D. Esteban E., Mentaschi L., Nikolaou A., Nurse L., Phillips W., Satoh M., Smith D, Trotz U., **Velegrakis A.F.**, Voukouvalas E., Vousdoukas M.I., Witkop R., 2018. Climate change impacts on critical international transportation assets of Caribbean Small Island Developing States (SIDS): The case of Jamaica and Saint Lucia. *Regional Environmental Change*, 18 (8), 2211–2225.
- Manoutsoglou E., Hasiotis T., Kyriakoudi D., **Velegrakis A.** and Lowag J., 2018. Shallow soft sediment mounds at a semi-enclosed embayment: Gulf of Gera, Lesvos Island, Greece. *Geo-marine Letters* 38 (4), 359-370
- Tzoraki O., I. Monioudi, **A.F. Velegrakis**, N.Moutafis, G.Pavlogeorgatos D. Kitsiou, 2018. Vulnerability and resilience of island beaches under Climate Change. *Coastal Management* 46 (2), 78-102.
- Zarkogiannis S., Kontakiotis G., Vousdoukas M.I., **Velegrakis A.F.**, Collins M.B., Antonarakou E., 2018. Scarping of artificially nourished mixed sand and gravel beaches: Sedimentological characteristics of Hayling Island beach, S.E England. *Coastal Engineering* 133, 1-12.)

- Tsekouras G.E. Trygonis V., Maniatopoulos A., Rigos, A. Chatzipavlis A., Tsimikas J. Mitianoudis N., **Velegarakis A.F., 2018.** A Hermite Neural Network Incorporating Artificial Bee Colony Optimization to Model Shoreline Realignment at a Reef-Fronted Beach. *Neurocomputing* 280, 32-45.
- Monioudi I., **Velegarakis A.F.**, Chatzipavlis A., et al., **2017.** Assessment of island beach erosion due to sea level rise: The case of the Aegean Archipelago (Eastern Mediterranean). *Natural Hazards and Earth System Science* 17, 449–466.
- Velegarakis, A.F.**, Trygonis, V., Chatzipavlis, A.E., Karambas, Th., Vousedoukas, M.I., Ghionis, G. Monioudi I.N., Hasiotis, Th., Andreadis, O. and Psarros, F., **2016.** Shoreline variability of an urban beach fronted by a beachrock reef from video imagery. *Natural Hazards*, 83, Supplement 1, 201–222.
- Monioudi I.N., Karditsa A., Chatzipavlis A., Alexandrakis G., Andreadis O.P, **Velegarakis A.F.**, Poulos S.E., Ghionis G., Petrakis S., Sifnioti D., Hasiotis T., Lipakis M., Kampanis N. and Marinos E., **2016.** Assessment of the vulnerability of the eastern Cretan beaches (Greece) to sea level rise. *Regional Environmental Change*, 16 (7), 1951–1962
- Rigos A., Tsekouras G.E., Vousedoukas M.I., Chatzipavlis A. and **Velegarakis A.F., 2016.** A Chebyshev polynomial RBF neural network for automated shoreline extraction from coastal imagery. *Integrated Computer-Aided Engineering*, 23 (2), 141-160.
- Katsanevakis S., Levin N., Coll M., Giakoumi S., Shkedi D., Mackelworth P., Levy R., **Velegarakis A.F.**, Koutsoubas D., Caric H., Brokovich E., Ozturk B. and Kark S., **2015.** Marine conservation challenges in an era of economic crisis and geopolitical instability: The case of the Mediterranean Sea. *Marine Policy*, 51, 31-39.
- Allenbach, K., Garonna, I., Herold, C., Monioudi, I., Giuliani, G., Lehmann, **A.F. Velegarakis, 2015.** Black Sea beach vulnerability to sea level rise. *Environmental Science & Policy* 46, 95–109. <http://dx.doi.org/10.1016/j.envsci.2014.07.014>
- Kontogianni, A.D., Damigos, D., Tourkolias C., Vousedoukas M.I., **Velegarakis A.F.**, Zanou B. and Skourtos M., **2014.** The social cost of coastal erosion: eliciting beach users' willingness to pay for protecting European beaches from beachrock processes. *Ocean & Coastal Management*, 98, 167-175.
- Rigos, A. M. I. Vousedoukas, G. E. Tsekouras, O. P. Andreadis and **A.F. Velegarakis, 2014.** On the systematic implementation of artificial neural networks in the classification of variance images and shoreline extraction. *Fresenius Environmental Bulletin*, Vol. 23, 2677-2686.
- Becker A, M Acciaro, R Asariotis, E Cabrera, L Cretegnny, P Crist, M Esteban, A Mather, S Messner, S Naruse, AKY Ng, S Rahmstorf, M Savonis, DW Song, V Stenek and **AF Velegarakis, 2013.** A note on climate change adaptation for seaports: A challenge for global ports, a challenge for global society. *Climatic Change*, 120, 683-695).
- Vousedoukas, M.I., **A.F. Velegarakis**, M. Paul, C. Dimitriadis, E. Makrykosta, D. Koutsoubas, **2012.** Field observations and modeling of wave attenuation over colonized beachrocks. *Continental Shelf Research*, 48, 100-109.
- Velegarakis, A.F.**, Ballay, A., Poulos, S., Radzevičius, R., Bellec, V., and Manso, F., **2010.** European marine aggregates resources: Origins, usage, prospecting and mining techniques *Journal of Coastal Research*, SI 51, 1-14.
- Van Lancker, V.R.M., Bonne, W., Garel, E., Degrendele, K., Roche, M., Dries Van den Eynde, D, Bellec, V., Brière, C., Collins, M.B., and **Velegarakis, A.F. 2010.** Recommendations for the sustainable exploitation of tidal sandbanks. *Journal of Coastal Research*, SI 51, 151-164.
- Van Lancker, V., Bonne, W., **Velegarakis, A.F.**, and Collins, M.B., **2010.** Sand extraction on tidal sandbanks: maintenance mechanism versus the creation of sandpits. *Journal of Coastal Research*, SI 51, 49-56.
- Radzevičius, R., **Velegarakis, A.F.**, Bonne, W., Kortekaas, S., Garel, E., Blažauskas, N., and Asariotis, R., **2010.** Marine Aggregate Extraction Regulation in EU Member States. *Journal of Coastal Research*, SI 51, 15-36.
- Vousedoukas, M., **Velegarakis, A.F.** and Karambas, Th., **2009.** Morphology and sedimentology of a beachrock-infected beach: Vatera Beach, Lesbos, Greece. *Continental Shelf Research*, 29, 1937–1947.
- Vousedoukas, M.I., **Velegarakis, A.F.**, Kontogianni, A. and Makrykosta, N.E. **2009.** Implications of the cementation of beach sediments (beachrock formation) for the recreational use of the beach. *Tourism Management* 30, 544-552.
- Vousedoukas. M.I., **Velegarakis A.F.**, Dimou K, Zervakis V., and Conley D.C., **2009.** Wave run-up observations in microtidal, sediment-starved beaches of the Eastern Mediterranean. *Journal of Marine Systems*, 78, 537-547.
- Velegarakis, A.F.**, Vousedoukas, M., Andreadis, O., Pasakalidou E., Adamakis, G., Meligonitis, R and Kokolatos G., **2008.** Influence of dams on downstream beaches: Eressos, Lesbos, Eastern Mediterranean. *Marine Georesources and Geotechnology*, 26, 350–371.
- Vousedoukas, M., **Velegarakis, A.F.**, and Plomaritis, C., **2007.** Beachrock occurrence, characteristics, formation mechanisms and impacts. *Earth Science Reviews*, 85, 23-46.

- Velegrakis A.F.**, Vousdoukas M., Vagenas, A.M., Karambas, Th., Dimou, K. and Zarkadas, Th., **2007**. Coastal waves generated by passing ships. *Coastal Engineering*. 54, 369-375.
- Friend, P.I., **Velegrakis, A.F.**, Weatherston, P.D. and Collins, M.B., **2006**. Sediment transport pathways in a dredged ria system, SW England. *Estuarine, Coastal and Shelf Science*. 67, 491-502.
- Kapsimalis, V., Masse, L., **Velegrakis, A.F.**, Tastet, J.P., **2004**. Morphological development of an estuarine bank: St Georges Bank, Gironde Estuary, France. *Journal of Coastal Research*, SI 41, 27-42.
- Gao, S., **Velegrakis, A.F.** and Collins, M.B., **2002**. Observation of a shallow water internal oscillation event. *Chinese Journal of Oceanology and Limnology*, 20, 86-90.
- Ediger, V., **Velegrakis, A.F.** and Evans, G. **2002**. Upper slope sediment waves in the Cilician Basin, Northeastern Mediterranean. *Marine Geology*, 192, 321-333.
- Paphitis, D., **Velegrakis, A.F.**, Collins, M.B. and Muirhead, S. **2001**. Laboratory investigations into the threshold of movement of natural sand-sized sediments, under unidirectional, oscillatory and combined flows. *Sedimentology*, 48, 645, 659.
- Velegrakis, A.F.**, Oikonomou, E., Theocharis, A., Collins, M.B., Kontoyiannis, H., Papadopoulos V., Voulgaris G., Balopoulos E. and Wells, T., **1999**. Internal waves revealed by Synthetic Aperture Radar (SAR) imagery at the eastern Cretan Arc Straits (Eastern Mediterranean). *Progress in Oceanography*, 44, 553-572.
- Tsimplis, M.N., **Velegrakis A. F.**, Drakopoulos, P., Theocharis, A. and Collins, M.B., **1999**. Cretan Deep Water outflow at the Straits of Crete. *Progress in Oceanography*, 44, 531-551.
- Velegrakis, A. F.**, Michel, D., Collins, M.B., Lafite, R., Oikonomou, E., Dupont, J.P., Huault, M.F., Lecouturier, M., Salomon, J.C., and Bishop, C., **1999**. Sources, sinks and resuspension of suspended particulate matter in the Eastern English Channel. *Continental Shelf Research*, 19, 1933-1957.
- Kontoyiannis, H., Theocharis, A., Balopoulos E., Kioroglou, S., Papadopoulos, V., Collins, M.B., **Velegrakis, A. F.** and Iona, A., **1999**. Water fluxes through the Cretan Arc Straits, Eastern Mediterranean: March 1994-June 1995. *Progress in Oceanography*, 44, 511-529.
- Velegrakis, A. F.**, Dix J.K., and Collins, M.B., **1999**. Late Quaternary evolution of the upper reaches of the Solent River, southern England, based upon marine geophysical evidence. *Journal of Geological Society of London*, 156, 73-87.
- Tsimplis, M.N., **Velegrakis, A. F.**, Theocharis A., and Collins, M.B., **1997**. Low frequency current variability at the straits of Crete. *Journal of Geophysical Research*, 102, 25005-25020.
- Velegrakis, A. F.**, Gao S., Lafite, R., Dupont, J.P., Huault, M. F., Nash, L. and Collins, M.B., **1997**. Resuspension and advection processes affecting Suspended Particulate Matter concentration variations in the Eastern English Channel. *Journal of Sea Research*, 38, 17-34

Γ. Διεθνή Συνέδρια

(α) Πρακτικά

- Monioudi I., Chatzistratis D., **Velegrakis A.**, Rigos A., Chatzipavlis A. Nikolaou A., Andreadis O. (2025) The geospatial characteristics of island beaches: the case of Kos, Greece, 17th International Congress of the Geological Society of Greece, 28-31 May, 2025 - Mytilene, Greece, Bulletin of the Geological Society of Greece, Sp. Publ., 1016-1020.
- Chatzistratis D., Monioudi I., Chalazas T., Andreadis O., Moschopoulos K., Chatzipavlis A., Psarros F., **Velegrakis A.** (2025) Flood risk of a touristic island beach under Climate Change: Komi beach Chios, 17th International Congress of the Geological Society of Greece, 28-31 May, 2025 - Mytilene, Greece, Bulletin of the Geological Society of Greece, Sp. Publ., 266-269.
- Chatzipavlis A., Chatzistratis D., Trygonis V., Monioudi I., Andreadis O., Psarros F., **Velegrakis A.F.**, **2024**. Longshore variability of swash motion in a dissipative touristic beach from high frequency video imagery. Hydromedit 2024.
- Chatzistratis D., Monioudi I., Chalazas T., Papaioannou G., Moschopoulos K., **Velegrakis A.F.**, Polydoropoulou A. **2024**. Flood risk assessment on two Greek island ports under the impact of rising sea levels. Hydromedit 2024
- Monioudi I.N., Chatzipavlis A.E., Nikolaou A., **Velegrakis A.F.**, Hasiotis **2023**. Exploring beach visitors' willingness to pay for protecting island beaches from erosion: The case of Marmari beach in Kos, Greece. CEST 2023. 18th International Conference on Environmental Science and Technology, Athens Greece.

- Velegrakis A.**, Papadatou K., Chadjimitsis D., Hasiotis T., Monioudi I., Kontopyrakis K., **2023**. Coastal flood and erosion risk under climate change: An overview of policies and legislation in Greece and Cyprus CEST 2023. 18th International Conference on Environmental Science and Technology, Athens Greece.
- Hasiotis, T., Velegrakis A., Chadjimitsis D., Loizidi M., **2023**. Beach erosion due to climate change: evaluation and best mitigation practices in touristic beaches of North Aegean Islands and Cyprus – The methodological structure of BEACHTECH project.
- Velegrakis A.**, Monioudi I., Vousdoukas M., Tzoraki O., Hasiotis T., **2023**. Drivers and impacts of beach erosion in Eastern Mediterranean Islands. CEST 2023. 18th International Conference on Environmental Science and Technology, Athens Greece
- Monioudi I., Chatzistratis D., Chalazas T., Savva C., Hasiotis T., **Velegrakis A.**, Kountouri J., Mettas C., Evagorou E. Hadjimitsis D., **2023**. Building of a database for Cyprus beaches Ninth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023) SPIE, 12786, 386-393.
- Velegrakis A.**, Papadatou K., Alves B., Hasiotis T., and Armaroli C., **2022**. International and EU Policies and Legislation for Coastal Floods. Marine and Inland waters Research Symposium, Port Heli, 16-20 September 2022. 4 pp.
- Chatzipavlis A.E., Trygonis V. and **Velegrakis A.F.**, **2022**. High frequency shoreline and wave run up detections through optical video imagery. An Example from Kamari beach, Santorini Greece. Proceedings Marine and Inland Waters Research Symposium 2022, 623-627.
- Manoutsoglou E., Hasiotis T., Andreadis O. and **Velegrakis A.**, **2022**. Holocene records of oyster reefs in a semi-enclosed embayment: Kalloni Gulf, Lesvos Greece. Proceedings Marine and Inland Waters Research Symposium 2022, 611-615.
- Lioupa V., Poulos A., Petsimeris I.Th., Andreadis O., Hasiotis T. and **Velegrakis A.**, **2022**. An unusual coastal depression at Eastern Lesvos island: Assuming possible formation mechanisms. Proceedings Marine and Inland Waters Research Symposium 2022, 617-621.
- Monioudi I.N., Velegrakis A.F., Vousdoukas M.I., Chatzistratis D. and Chalazas Th., **2022**. Coastal hazards under Climate Variability and Change. The cases of Santorini and Crete Aegean Sea, Greece. Proceedings Marine and Inland Waters Research Symposium 2022, 51-56.
- Manoutsoglou E., Hasiotis T., Andreadis O., **Velegrakis A.**, **2021**. Seismic evidence of shallow-seated fluids in the Gulf of Gera, Lesvos Proceedings of the 4th International Congress on Applied Ichthyology, Oceanography & Aquatic Environment (HYDROMEDIT), 4-6 November 2021, Mytilene, Lesvos, Greece, pp.240-253.
- Chalazas T., Chatzistratis D., **Velegrakis A.F.**, **2021**. Spatial prioritisation for coastal management based on erodibility assessment paired with socio-economic elements Proceedings of the 4th International Congress on Applied Ichthyology, Oceanography & Aquatic Environment (HYDROMEDIT), 4-6 November 2021, Mytilene, Lesvos, Greece, pp. 425-429
- Monioudi I.N., Markozanes F., **Velegrakis A.F.**, Chatzipavlis A.E., Čulibrk A., Kontopyrakis K.E., **2021**. Prioritization of beach vulnerability to sea level rise: The case of Santorini, Greece Proceedings of the 4th International Congress on Applied Ichthyology, Oceanography & Aquatic Environment (HYDROMEDIT), 4-6 November 2021, Mytilene, Lesvos, Greece, pp.264-268
- Chatzipavlis A.E., Zamboukas V., Trygonis V. and **Velegrakis A.F.**, **2021**. Automated 2-D shoreline and wave run-up detections from high frequency optical data. Example from an urban perched beach: Ammoudara, Herakleion, Crete. Proceedings of the 4th International Congress on Applied Ichthyology, Oceanography & Aquatic Environment (HYDROMEDIT), 4-6 November 2021, Mytilene, Lesvos, Greece, pp. 269-272.
- Andreadis O., T. Hasiotis, E. Manoutsoglou, A. Chatzipavlis, I. Monioudi and **A. Velegrakis**, **2021**. Prospective marine aggregate deposits in Chios Island (Greece): a preliminary evaluation. Proceedings of the Eighth International Conference on Environmental Management, Engineering, Planning & Economics Thessaloniki, Greece, July 20-24, 2021 ISBN: 978-618-5494-53-7. 659-667.
- Kontogeorgos I., O. Tzoraki, N. Moutafis, Th. Hasiotis and **A.F. Velegrakis**, **2017**. Methodological framework to estimate the coastal sediment supply of the island beaches. European Water 57, 261-266.
- Tsekouras G.E., Trygonis V., Rigos A., Chatzipavlis A., Tsolakis D., **Velegrakis A.F.**, **2017**. Neuro-Fuzzy Network for Modeling the Shoreline Realignment of the Kamari Beach, Santorini,. 18th International Conference on Engineering Applications of Neural Networks, EANN 2017, Communications in Computer and Information Science 744, 229-241.

- Velegrakis A.**, Hasiotis T., Tzoraki O., Karambas Th., Monioudi I., Trygonis V. Topouzelis K., Chatzipavlis, A., Aaheim A., Orlov A, **2017**. Recording of and technical responses to coastal erosion of touristic Aegean island beaches – The ERABEACH project. Proceedings of the CEST International Conference 2017. 6 pp.
- Hasiotis T., **Velegrakis A.**, Trygonis V., Topouzelis K., Andreadis O., Chatzipavlis, A., Psarrose F., Manoutsoglou E., Monioudi I., **2017**. Monitoring erosion risk in Kamari beach (Santorini). Proceedings of the CEST International Conference 2017. 6 pp
- Gazis I-Z., Hasiotis T., **Velegrakis A.**, Anastasatou M., Kapsimalis V., Poulos S., Stamatakis M., **2017**. The potential of marine aggregate deposits off a highly eroded coastal area in Lesvos Isl. (Greece) - Implications for coastal management. Proceedings of the CEST International Conference 2017. 6 pp.
- Andreadis O., Hasiotis T., Psarros F., Chatzipavlis, A., **Velegrakis A.**, **2017**. Erosion and sediment transport processes along Eresos coastal zone (Lesvos, Greece) Proceedings of the CEST International Conference 2017. 6 pp.
- Rigos A., G.E. Tsekouras, A. Chatzipavlis and **A.F. Velegrakis**, **2016**. Modeling Beach Rotation Using a Novel Legendre Polynomial Feedforward Neural Network Trained by Nonlinear Constrained Optimization. Artificial Intelligence Applications and Innovations, IFIP Advances in Information and Communication Technology, 475, 167-179.
- Meligonitis R., Galanopoulos D., Hasiotis T., **Velegrakis A.**, **2016**. Geo-electrical mapping of beachrock in Vatera beach, Lesvos. Proceedings of the 14th International Conference, Thessaloniki, May 2016. Bulletin of the Geological Society of Greece, vol. L, 2323—2331.
- Velegrakis, A.F.**, Trygonis, V., Vousdoukas, M.I., Ghionis, G., Chatzipavlis A., Andreadis, O., Psarros, F., Karambas, Th., Sifnioti D. and Eleptheriou A , **2015**. High resolution morphodynamic monitoring of an island beach of the Aegean Archipelago, using a 2-D automated coastal video imagery system. *12th International Conference on the Mediterranean Coastal Environment MEDCOAST 15, Varna, Bulgaria 6-10 October 2015*
- Velegrakis, A.F.**, Trygonis, V., Vousdoukas, M.I. Ghionis, G., Hatzipavlis A, Andreadis, O., Psarros, F. and Hasiotis Th., **2015**. Automated 2-d shoreline detection from coastal video imagery: an example from the island of Crete. Third International Conference on Remote Sensing and Geoinformation of the Environment 2015, 16-19 March 2015, (RSCy2015), 95351J. doi:10.1117/12.2192687. <http://dx.doi.org/10.1117/12.2192687>
- Tsekouras, G.E., Rigos, A., Chatzipavlis, A., **Velegrakis, A.**, **2015**. A neural-fuzzy network based on Hermite polynomials to predict the coastal erosion. Communications in Computer and Information Science, 517, 195-205.
- Rigos, A., Andreadis O.P., Manousakis A. Vousdoukas M.I., Tsekouras G.E., **Velegrakis A.**, **2014**. Shoreline extraction from coastal images using Chebyshev Polynomials and RBF Neural Networks. Artificial Intelligence Applications and Innovations, IFIP Advances in Information and Communication Technology, Vol. 436, 593-603.
- Drakopoulos, P.G., E. Oikonomou, G. Skianis, S.E. Poulos, A. Vaiopoulos, K. Lazogiannis, G. Ghionis, **A. Velegrakis**, **2014**. Use of satellite imagery for automated monitoring of the shoreline retreat rate. International Conference Adapt to Climate, Lefkosia, Cyprus March 2014. adapttoclimate.uest.gr
- Monioudi I.N., A. Karditsa, G. Alexandrakis, S.E. Poulos, **A.F. Velegrakis**, O.P. Andreadis, G. Ghionis, S., Petrakis, D. Sifnioti, E. Markakis and D.I. Giannouli, **2014**. Vulnerability assessment of Eastern Cretan beaches (Greece) to sea level rise. International Conference Adapt to Climate, Lefkosia, Cyprus March 2014. 11pp. adapttoclimate.uest.gr
- Hasiotis T., Monioudi I., Raphaelides R, and **Velegrakis, A.F.**, **2013**. Beach carrying capacity under sea level rise. Proceedings of the EMECS 10-MEDCOAST 2013 Joint Conference, Global Congress on ICM. Marmaris, Turkey 30th October-3rd November 2013. 776-787.
- Velegrakis A.F.** et al., **2013**. Physical and economic impacts of sea level changes on the island beaches of the Aegean Archipelago (ISLA); concepts and preliminary results. Proceedings of the 13th International Conference on Environmental Science and Technology, CESWT .2013, 5-7 September 2013, Athens Greece. 8pp.
- Vousdoukas, M.I., Wachler, B., Almeida, L.P., Ferreira, O., Alexandrakis, G., **Velegrakis, A.F.**, and Schimmels, S., **2013**. Predicting beach-face rotation on a meso-tidal, steeply sloping beach. Proceedings of Coastal Dynamics 2013, 1835-1846.
- Rigos, A., Vousdoukas, M.I., Tsekouras, G.E. and **Velegrakis, A.F.**, **2013**. On the systematic implementation of artificial neural networks in the classification of variance images and shoreline extraction. Proceedings of International conference, Mykonos (Greece), June 2013. 6 pp.
- Chatzipavlis, A., Monioudi, I., **Velegrakis, A.F.**, Andreadis, O., **2012**. Case scenario investigation of beach nourishment in Eresos beach, Lesvos, Greece. Proceedings of the International Offshore and Polar Engineering Conference, pp. 1425-1432

- Velegrakis, A.F.**, Lehmann, A., Monioudi, I., Giuliani, G., Herold, C., Allenbach, A., De Bono, A. and Radchenko, I., **2009**. Beach erosion prediction for the Black Sea coast, due to sea level rise. Proceedings of the 9th MEDCOAST Conf., Sochi, Russia, 10-14 Nov, 2009, 776-787.
- Vousdoukas, M.I., Karambas, T.V. and **Velegrakis, A.F.**, **2007**. Modelling beach profile evolution of beachrock-infected beaches using a Boussinesq model. IAHR International Conference, Venice, July, 2007. 10 pp.
- Vousdoukas M.I., Andreadis O., Adamakis G., Pasakalidou E., Kokolatos G., **Velegrakis A.F.**, **2006**. Small river dams in islandic areas: Blessing or curse? International Conference Focaia, October, 2006. 6 pp.
- Vousdoukas, M., **Velegrakis, A.F.**, and Karambas, Th., **2005**. Beachrock formation, phenomenology and impacts: an example from Vatera beach, Lesvos island, Greece. Proceedings of the 9th International Conference on Environmental Science and Technology, Rhodes Island, Greece 1-3 September 2005. 6pp.
- Vousdoukas, M., **Velegrakis, A.F.**, Karambas, Th., Valais, G and Zarkoyiannis, S., **2005**. Morphodynamics of beachrock-infected beaches: Vatera beach, NE Mediterranean. Coastal Dynamics 2005, May 2005, Barcelona Spain. 14pp.
- Voulgaris, G., Terray, E., Trowbridge, J., **Velegrakis, A.F.** and Paphitis, D., **1999**. Spatial variability of bottom turbulence over a linear sandbank: Experimental design and preliminary results. Abstracts, AGU International Conference, December 1999, San Fransisco USA 6pp.
- Velegrakis, A.F.**, Voulgaris G., and Collins M.B., **1994**. The role of waves and currents in the maintenance of a nearshore gravel bank. Proceedings of the 2nd International Conference on the Geology of Siliciclastic Shelf Seas, Ghent, 1994, 124-128.

(b) Περίληψεις

- Monioudi I.N., Chatzipavlis A., Psarros F., Rigos A., Andreadis O., Hasiotis T. & **Velegrakis A.F.**, **2016**., Evaluation of beach erosion risk of the Aegean Archipelago, Abstracts ISISA Islands of the World XIV Conference proceedings 2016, Niss(i)ology and Utopia: back to the roots of Island Studies, 23 - 27 May 2016, Mytilene, Lesvos Island, Greece.
- Joumar N., Benaabidate L., Kontogeorgos Y., Tzoraki O., **Velegrakis A.F.**, **2016**. Identifying areas exposed to flooding in a coastal ungauged watershed. COP22 Conference, Marrakech 7-14 November 2016.
- Velegrakis, A.F.**, Andreadis, O., Papakonstantinou, A., Manoutsoglou, E., Doukari, M., Hasiotis, T., Topouzelis, K. and Katsanevakis, S., **2016**. Preliminary study on the emerging marine litter problem along the eastern coast of Lesvos. 41th CIESM Congress Proceedings, Kiel-Germany, 12-16 Sept., pp. 536.
- Andreadis, O., T. Hasiotis, F. Psarros, A. Chatzipavlis, V. Trygonis & **A. Velegrakis**, **2016**., Monitoring of shallow coastal morphodynamic changes in a touristic beach of Lesvos isl., Greece, Proceedings of 4th International Conference on Remote Sensing and Geoinformation of Environment (RSCy2016), 4-8 April 2016, Paphos, Cyprus
- Ghionis G., Trygonis V., Karydis A., Vousdoukas M., Alexandrakis G., Drakopoulos P., Andreadis O., Psarros F., **Velegrakis A.** and Poulos S., **2016**. An integrated multispectral video and environmental monitoring system for the study of coastal processes and the support of beach management operations. EGU General Assembly 2016, 17-22 April 2016, Vienna, Austria p.17240.
- Velegrakis A.F.**, Trygonis, V. , Monioudi I. , Vousdoukas M.I., Ghionis, G., Karambas, Th., Andreadis O., Psarros F., Hasiotis Th., Poulos S.E., Chatzipavlis A. and Karditsa, A., **2015**. Climate Variability and Change (CV & MC) impacts on beaches: A new methodological approach focusing on a loggerhead sea turtle nesting beach (Gerakas, (National Marine Park of Zakynthos). *International Scientific Symposium, Marine Protected Areas in Greece and the Mediterranean, Zakynthos 4-6 December 2015*
- Kikaki A., G. Ghionis, M. Vousdoukas, A. Karditsa, O. Andreadis, S. Petrakis, A. Alexandrakis, D. Sifnioti, I. Monioudi, T. Hasiotis, S. Poulos, **A. Velegrakis**, N. Kampanis, M. Lipakis, **2015**. Study of the Beach Zone of Koutsounari (SE Crete) using Video Monitoring Methods. Proceedings 10o Διεθνές Συνέδριο της Ελληνικής Γεωγραφικής Εταιρείας 11pp. <http://geolib.geo.auth.gr/digeo/index.php/pgc/article/view/10439> .
- Psarros F., Monioudi I., Andreadis O., Hasiotis T., **Velegrakis A.**, Hatzipavlis A., Trygonis V., Dimitriadis Ch. **2015**. Evaluation of climate change impacts on the sea-turtle nesting beaches of Zakynthos National Marine Park, Greece. 3rd International Symposium Effects of Climate Change on the World's Oceans, March 21–27, 2015 Santos, Brazil, 163.
- Karditsa A., Poulos S.E. **Velegrakis A.**, Ghionis G. Petrakis S., Alexandrakis G., Andreadis O., and Monioudi I. 2015. Development of a Coastal Inventory in Greece. EGU General Assembly 2015, 12-17 April, 2015 Vienna, Austria. (id.10621).

- Nasras, S., Andreadis, O., Hasiotis, T., Psarros, F., **Velegrakis, A.F., 2014.** Spatio-temporal micro-morphological changes in the inshore part of Eresos beach, Lesvos, Greece. *Proceedings 19th International Sedimentological Congress, 18-22 August 2014, Geneva.*
- Velegrakis, A.F.,** Monioudi, I.N., Chatzipavlis, A., Hatzopoulos, J.N., Hasiotis, Th., Psarros, F., Rigos, A., Vousdoukas, M.I., Lekkas, D., Ghionis, G., Peduzzi, P., Chatenoux, B., **2014.** Development of a methodology for the estimation of beach vulnerability to sea level rise - an application to the Aegean Sea. *Proceedings 19th International Sedimentological Congress, 18-22 August 2014, Geneva..*
- Ghionis G., G. Alexandrakis, A. Karditsa, D. Sifnioti, M. Vousdoukas, O. Andreadis, S. Petrakis, S. Poulos, **A. Velegrakis, N. Kampanis and M. Lipakis, 2014.** An integrated multi-parameter monitoring approach for the quantification and mitigation of the climate change impact on the coast of eastern Crete, s. Aegean Sea (project: AKTAIA). EGU General Assembly 2014, 27 April -2 May, Vienna, Austria. (id.10621).
- Stamatakis M., S. Poulos, A. Tsoutsia, N. Papavlassopoulou, A. Karditsa and M. Anastasatou, **A. Velegrakis, T. Hasiotis, V.Kapsimalis and G.Roussakis, 2013.** Marine Aggregates deposits – MARE project. 6th International Conference on Sustainable Development in the Minerals Industry. 30 June – 3 July, Milos island, Greece. 198-2013
- Velegrakis A.F., 2013.** Ports: Range of physical settings and environmental controls. Sea ports and climate change: JRC workshop on risk assessment. <https://ec.europa.eu/jrc/en/event/sea-ports-and-climate-change-jrc-workshop-risk-assessment-28233>
- Manoutsoglou E., T. Hasiotis and **A. Velegrakis, 2013.** Acoustic detection of benthic assemblages in a land-locked shallow marine environment: Gulf of Gera, Lesvos, Greece. 40th CIESM Congress, Marseill-France, 28 Oct. - 1 Nov. Congress Proceedings, paper ID: 6919-127374
- Poulos S., **Velegrakis A.,** Kampanis N., Ghionis G., Vousdoukas M., Karditsa A., Alexandrakis A., Andreadis O., Petrakis S., Sifnioti D., Giannouli D., Lipakis M., Marinos E. and Manganas T., **2013.** The development of new methodologies for the quantification and mitigation of the climatic change impact on the E. Cretan coast, S. Aegean Sea (Project AKTAIA). Rapport du Commission Internationale Mer Mediterranee CIESM, Proceedings of the 40th CIESM Congress, Marseille, France, 28 October-1 November 2013.
- Psarros, P., I. Monioudi, E. Manoutsoglou, O. Andreadis, P. Tziourrou, T. Hasiotis, **A.F. Velegrakis, C. Dimitriadis, L. Sourbes and D. Koutsoubas, 2013.** Predicting the response of a sea-turtle nesting beach in sea-level rise, Gerakas, Zakynthos, Greece. 14th CIESM Congress, Marseilles, France, 28th October-1st November 2013.
- Kyrtzoglou, T., Kontogianni, A., Hasiotis, T., **Velegrakis, A.,** Monioudi, I. And Skourtos, M., **2013.** An integrated vulnerability index for small ports under a climate change threat. 40th CIESM Congress – Marseille, France, 28 October - 1 November 2013
- Hasiotis, T., Andrinopoulos, A. & **Velegrakis, A., 2012.** Acoustic anomalies and related morphological features in the Kalloni Gulf, Lesvos, Greece. 18th International Sedimentological Congress, 26 September - 1 October 2010, Mendoza, Argentina, p. 421
- Alexandrakis, G., Poulos, S. and **Velegrakis, A.F., 2010.** The development of a vulnerability index for beach erosion, based on a sediment budget approach. *Rapp. Comm. int. Mer Médit.* 39, 713
- Vousdoukas, M.I., Dimou, K., and **Velegrakis, A.F., 2007.** High frequency wave run-up and sea surface elevation measurements using video/optical methods. 8th MEDCOAST Conference, Alexandria, Egypt.
- Vousdoukas, M.I., Dimou, K., **Velegrakis, A.F.,** and Conley, D., **2007.** Measuring waves in the surf/swash zone using video/image processing methods. Rapid Environmental Assessment Conference, .25-27 Sept, Lercia, Italy.
- Hasiotis, Th., and **Velegrakis, A.F., 2007.** Preliminary results of biogenic mounds morphology in the Kalloni Gulf, Lesvos. 25th IAS Conf., 4-7 September, Patras.
- Vousdoukas, I. M., **Velegrakis, A.F.,** Kontoyianni, A., Makrykosta, E and Eleftheriou, A., **2007.** Beachrocks in the Mediterranean: Morphodynamic, ecological and socio-economic impacts. CIESM Istanbul, April 2007. 12 pp.
- Velegrakis A.F.,** Tsimplis, M.N., Drakopoulos, P., Theocharis, A. and Collins, M.B., **1999.** Cretan Deep Water outflow at the Straits of Crete. Abstracts International Conference on the Variability of the Eastern Mediterranean and Black Sea, February 23-26 1999 Athens.
- Tsimplis, M.N. and **Velegrakis, A.F., 1998.** Estimation of the deep water outflow through the Cretan Straits using a simple hydraulic model. Abstracts UK Challenger Society, Southampton, September 1998, p.84..
- Paphitis, D., Tsimplis, M.N., **Velegrakis, A.F** and Collins, M.B., **1998.** Sediment transport predictions using a two-dimensional tidal numerical model in the Solent Region, southern England. Abstracts UK Challenger Society, Southampton, September 1998, p. 175.

- Paphitis, D., **Velegrakis, A.F.** and Collins, M.B., **1998**. Residual circulation and associated sediment dynamics: Eastern Approaches to the Solent. Abstracts UK Challenger Society, Southampton, September 1998, p. 119.
- Balopoulos, E., Price, B., Haussner, S., Kontoyannis, H., Theocharis, A., Souvermenzoglou, A., Monaco, A., Gotsi, O., Ignatiades, L., Varnavas, S.P., Voutsinou, F., Apostolopoulou, M., Papadopoulos, V., Kioroglou, S., Pavlidou, A., Theodorou, A., Collins, M.B., **Velegrakis, A.F.**, Dermisis, V., Skarvelis, I., Koutitas, C., Matsoukis, P., Kotsovinos, N., Nakopoulou, C., Iona, A., Stavrakakis, S., Pagou, K., Moriki, M.A., and Krasakopoulou, E., 1997. Hydrology and biochemical fluxes in the South Aegean and the Straits of Cretan Arc. (March 1994-June 1995). Proceedings of the International POEM-BC Workshop/Symposium Molitg les Bais, France, 1-5 July **1996**.
- Tsimplis, M.N., **Velegrakis, A.F.**, and Collins, M.B., **1996**. Low and high frequency current variability at the Straits of Crete. Abstracts UK Challenger Society, Bangor, September 1996, p. 202
- Velegrakis, A.F.** and Collins, M.B., **1990**. Development and maintenance of Shingles Bank, Christchurch Bay, Southern England. Abstracts of the 1990 Conference of UK Challenger Society, p. 100.

Δ. Εθνικά Περιοδικά και Συνέδρια

(α) Πρακτικά

- Προβατάς Σ., Ο Τζωράκης, **Α Βελεγράκης**, Ν Προβατάς, Α Ζήρος, **2015**. Εκτίμηση υδάτινων απορροών νησιωτικών λεκανών υπό την επίδραση κλιματικών μεταβολών μέσω του υδρολογικού μοντέλου SWAT. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece pp 1129-1132.
- Margaroni, S.G., Tzoraki, O., **Velegrakis, A.**, **2015**. Soil erosion risk of Lesvos Island. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece pp. 1125-1129.
- Stamatakis M., Anastasatou M., Tsoutsia A. Petrakis S., Kapsimalis V., Roussakis G., Poulos S., Karditsa A., Mitsis I., Voudouris, P., Aspiotis K., Stamatakis G., **Velegrakis A.**, Papavlassopoulou N., **2015**. Quality factors concerning possible exploitation of Marine Aggregates in NW Crete Island inner shelf. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece pp. 1081-1084.
- Tsoutsia A., Anastasatou M., Karditsa A., Petrakis S., Stamatakis M., **Velegrakis A.**, Poulos S., Kapsimalis V., Rousakis G., **2015**. Prospecting of possible Marine Aggregates deposits in Kissamos Bay (SW Aegean Sea). 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece pp. 1057-1060.
- Velegrakis A.** Karditsa A., Paramana, Th., Poulos S., Anastasatou M., Tsoutsia A., Papavlasopoulou N., Stamatakis, M., Hasiotis, T., **2015**. Marine Aggregates extraction regulations in Greece in accordance to European Practices. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece pp. 1073-1076.
- Karditsa, A. **Velegrakis A.**, Poulos S., Kapsimalis V., Stamatakis M., Tsoutsia A., Anastasatou M., Hasiotis T., Rousakis G., Panagiotopoulos I., **2015**. Environmental framework related to Marine Aggregates exploitation in Greece 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece. pp. 1069-1072.
- Χρόνης, Α., Χασιώτης, Θ., Lowag J., **Βελεγράκης Α.**, **2015**. Κατανομή και πιθανές αιτίες ανάπτυξης υβωμάτων βιογενούς προέλευσης στον κόλπο της Καλλονής, Λέσβος. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos island, Greece, pp. 1029-1032.
- Παπαδάκης, Μ., Χατζηπαυλής Α., Καπλαντζή Α., Μονιούδη Ι., **Βελεγράκης Α.Φ.**, Νικολάου Α. και Κοντογιάννη Α. , **2015**. Εφαρμογή ενός βιοκλιματικού δείκτη για την εκτίμηση της ελκυστικότητας 3S προορισμών σε δυο παραλίες αυξημένης τουριστικής κίνησης στη Ροδο και Μυκονο. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece. 1105-1108.
- Βελεγράκης Α.**, Μονιούδη Ι., Χατζηπαυλής Α., Χατζόπουλος Ι., Ρήγος Α., Ψαρρός Φ., **2015**. Ανάπτυξη μεθοδολογίας για την εκτίμηση της οπισθοχώρησης των νησιωτικών παραλιών του Αιγαίου Πελάγους κάτω από αλλαγές της θαλάσσιας στάθμης. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece, 1089-1092.
- Nasras, S., Andreadis, O., Psarros, F., Monioudi, I., Hasiotis, T., **Velegrakis, A.F.**, **2015**. Morphological evidence of active sediment transport in the inshore area of Eressos beach (Lesvos), 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos island, Greece, pp. 1097-1100
- Χατζηπαυλής Α. Ψαρρός, Φ., Μανούτσου Ε., Τρυγόνης Β., Ανδρεαδής Ο. Ελευθερίου Α., **Βελεγράκης Α.Φ.**, Χασιώτης Θ., **2015**. Υδροδυναμική και μορφοδυναμική νησιωτικών παραλιών τσέπης: Προκαταρκτικά αποτελέσματα από το Καλό Λιβάδι Μυκόνου. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesvos, Greece. 1101-1104.

- Trygonis, V., Chionis G., Andreadis O.P., Vousdoukas, M., Ntemogiannis I., Rigos, A., Psarros F., **Velegrakis A.F.**, Hasiotis T., and Poulos S.E., **2015**. Monitoring beach attendance in the Paralia Katerini, Greece using a costal imaging system. Proceedings 11th Panhellenic Symposium on Oceanography and Fisheries, Lesvos May 2015, 737-740.
- Karditsa A., Poulos S., **Velegrakis A.**, Ghionis G., Petrakis S., Alexandrakis A., Andreadis O., Monioudi I., **2015**. An introduction to a beach inventory: The case of the beaches of the Heraklion and Lassithi regions in Crete. Proceedings 11th Panhellenic Symposium on Oceanography and Fisheries, Lesvos May 2015, 745-748.
- Ghionis, G., Sifnioti, D., Chatzipavlis, A., Petrakis, S., Andreadis, O., Psarros, F., Poulos, S., Hasiotis, T., **Velegrakis, A.**, **2015**. Wave transformation and water circulation in a reef-protected nearshore zone. The case of Ammoudara Beach (Heraklion, Crete). Proceedings 11th Panhellenic Symposium on Oceanography and Fisheries, Lesvos May 2015, 1113-1116.
- Rigos A., Kokkoris G.D., **Velegrakis A.**, Hatzopoulos J. N. , Andreadis O., Trygonis, V., **2015**. Beach database of the Aegean Archipelago. Proceedings of the 11th Panhellenic Symposium of Oceanography & Fisheries
- Μανούτσου, Ε., Χασιώτης, Θ., **Βελεγράκης, Α.**, Χατζηλιάς, Ν. **2015**. Ακουστική διασκόπηση του μαλακού υποστρώματος στον κόλπο της Γέρας, Λέσβος. Proceedings 11th Panhellenic Symposium on Oceanography and Fisheries, Lesvos May 2015, 1021-1024.
- Vousdoukas M.I and **Velegrakis A.F.**, **2009**. Measuring swash using videos in E.Mediterranean beaches. Proceedings 9th National Conference in Oceanography and Fisheries. Patras May 2009. 6pp.
- Karambas, Th., Andreadis, O., **Velegrakis, A.F.**, **2008**. Erosion beach erosion: Causes and remedies. Proceedings of the 4th Greek Conference ' Coastal Zone Management' Mytilene, September 2008, 467-476. (In Greek with English abstract),
- Vagenas M.A., Vousdoukas M., **Velegrakis A.F.** and Zarkadas Th., **2008**. Effect of waves generated by passing ships on a beach close to the port of Mytilene (Lesvos Island). Proceedings 8th Panhellenic Symposium on Oceanography and Fisheries, May, 2008. [https://oceanos-space.hcmr.gr/bitstream/handle/123456789/2894/Panhellsympoceanfish8\(2006\)029.pdf?sequence=11-6](https://oceanos-space.hcmr.gr/bitstream/handle/123456789/2894/Panhellsympoceanfish8(2006)029.pdf?sequence=11-6)
- Karambas, Th., **Velegrakis, A.F.**, Pantatzis, A., **2008**. Application of advanced mathematical modelling in beach replenishment projects in Lesvos. Proceedings of the 4th Greek Conference ' Coastal Zone Management' Mytilene, September 2008, 457-466. (In Greek with English abstract)
- Makrikosta, E., Vousdoukas, M.I., **Velegrakis, A.F.** and Koutsoumbas, D., **2006**. Structure and dynamics of the benthic communities of the beachrock surfaces of Vatera Bay (Lesvos, Greece). Proceedings of the 3rd Conference of the Greek Zoological and Ecological Society, Ioannina, Greece 16-19 November 2006. (In Greek with English abstract).
- Vousdoukas M. and **Velegrakis, A. F.**, **2006**. Morphological behaviour of a beachrock-infected beach at the Island of Lesvos. 8th Greek Conference of Oceanography and Fisheries, Thessaloniki, Greece, 2006.
- Vagenas, M.A., Vousdoukas M., **Velegrakis A.F.**, Zarkadas, Th. **2006**. Waves generated by passing ships. 8th Greek Conference of Oceanography and Fisheries, Thessaloniki, Greece, 2006.
- Velegrakis, A.F.**, **2005**. Coastal erosion in the Greek Archipelago. Proceedings of the Conference 'Chios and Sea', Chios July 2005. 20 pp.
- Velegrakis, A.F.**, Oikonomou, E.K., Theocharis A., Papadopoulos, V., Collins, M.B., and Balopoulos E., **1997**. Satellite observations of the surface water characteristics in the Easter Cretan Straits. 5th Greek Conference of Oceanography and Fisheries, Kavala, Greece, 1997, 177-180.

(b) Περίληψεις

- Papayiannis K., Moutafis N., Tzoraki O., **Velegrakis A.**, **2016**, Flood risk analysis of river basin by the use of HEC-RAS model – The case study of Eresos river, Abstracts conference proceeding P86 of the Congress of the Hellenic Ecological Society (HELECOS-8), 20-23/10/2016 Thessaloniki, Greece
- Tourlioti P., Tzoraki O., **Velegrakis A.**, Pagoudi A., **2016** Mytilene residents' knowledge and perception about coastal erosion, Abstracts conference proceeding P274 of the Congress of the Hellenic Ecological Society (HELECOS-8), 20-23/10/2016 Thessaloniki, Greece
- Monioudi, I., Nikolaou, A., Kaimbali, J., Allenbach, K., Avagianou, Th. and **Velegrakis, A.F.**, **2011**. Beach erosion predictions for Aegean islands due to sea level rise. "Tziavos" Coastal Geomorphology Workshop HCMR, March 2011.
- Andreadis, O., Psarros, F., Karambas, Th., and **Velegrakis, A.F.**, **2011**. Sedimentology and morphodynamics of the Eresos beach, Lesvos. "Tziavos" Coastal Geomorphology Workshop HCMR, March 2011 (Poster session)

- Hasiotis, T. and **Velegrakis A.**, **2007**. Preliminary results of biogenic mounds morphology in the Kalloni Gulf, Lesbos island. 25th IAS (International Association of Sedimentologists) Meeting of Sedimentology, Patras 4-7th September, p. 90
- Dethleff, D., **Velegrakis, A.F.**, Lafite, R. Bishop C. and Collins M.B., **1996.**, Sedimentological investigations on sand and silt-sized material in Western English channel surface deposits and local suspended particulate matter, Meeting of the Marine Studies Group of the Geological Society of London, Southampton, UK, 24–25.
- Velegrakis, A.F.**, Zeidler, A., and Collins, M.B., **1991**. Review of the post-processing tools relevant to side-scan sonar and sub-bottom profiler data. Abstracts of the 1st Greek Geosciences and Environment Conference, p. 19-20.
- Velegrakis A.F.** and Collins, M.B., **1991**. Sediment Dynamics of the Christchurch Bay, S. England. Abstracts of the 1st Greek Geosciences and Environment Conference, 17-18.

E. Τεχνικές Αναφορές (τελικές)

Διεθνείς και Ευρωπαϊκοί Οργανισμοί

- UNECE, 2026. Assessment of Climate Change Impacts and Adaptation for Inland Transport - Towards climate resilient transport systems. [Assessment of Climate Change Impacts and Adaptation for Inland Transport - Towards climate resilient transport systems | UNECE](#)
- Velegrakis A.F.**, Chatzistratis D., Chalazas T., Armaroli C. Schiavon E. Papadatou K. Nikolaou a., Ghergo G. **2022**. Users' needs and requirements: Regulations vs needs and technical specifications. Deliverable D2.4. ECFAS Project (GA 101004211), www.ecfas.eu.
- Alves B., Schiavon E., Armaroli C., **Velegrakis A.F.**, **2022**. Users' Requirements Report, Deliverable D2.3, WP2 – T2.3. ECFAS Project (GA 101004211), www.ecfas.eu
- Velegrakis, A.F.**, Hasiotis, T., Papadatou, K., **2021**. Coastal climate resilience: review of policies and regulations, Deliverable 2.2 – ECFAS Project (GA 101004211), www.ecfas.eu
- UNFCCC, **2020**. Policy Brief: Technologies for Averting, Minimizing and Addressing Loss and Damage in Coastal Zones. United Nations Framework Convention on Climate Change, Executive Committee of the Warsaw International Mechanism for loss and damage. 74 pp. https://unfccc.int/ttclear/misc/_StaticFiles/gnwoerk_static/2020_coastalzones/cfecc85aaa8d43d38cd0f6ceae2b61e4/2bb696550804403fa08df8a924922c2e.pdf
- Bowyer P., Hänsel S., Smalley E., **Velegrakis A.**, Dagan M., Wyrowski L, **2020**. Climate Change Impacts and Adaptation for Transport Networks and Nodes. United Nations Economic Commission for Europe (UNECE), Expert Group Report ECE/TRANS/283. 216 pp. https://unece.org/sites/default/files/2021-01/ECE-TRANS-283e_web.pdf
- ECE, **2015**. Transport for Sustainable Development: The case for inland transport. United Nations Economic Commission for Europe ECE/TRANS/251. 255 pp.
- Velegrakis A.F.** and Monioudi I., **2014**. Formation zones d' Erosion. UNEP(DEPI)MED WG 396/2 Tunis 5 /06/2014 53 pp
- ECE, **2013**. Climate Change Impacts and Adaptation for International Transport Networks. Expert Group Report, Inland Transport Committee, United Nations Economic Commission for Europe ECE/TRANS/238, 223 pp. http://www.unece.org/fileadmin/DAM/trans/main/wp5/publications/climate_change_2014.pdf
- Handmer J., Honda Y., Kundzewicz Z.W., Arnell N., Benito G., Hatfield J., Mohamed I. F., Peduzzi P., Wu S., Sherstyukov B., Takahashi K., Yan Z., Vicuna S., Suarez A. Abdulla A., Bouwer L. M., Campbell J., Hashizume M., Hattermann F., Heilmayr R., Keating A., Ladds M., Mach K.J., Mastrandrea M.D., Mechler R., Nobre C., Sanghi A., Screen J., Smith J., **Velegrakis A.**, Vergara W., Waite A.M., Westrich J., Whittaker J., Yunhe Y. and Yamano H., **2012**. Managing the Risks of Extreme Events and Disasters to Advance Climate Change. Adaptation Special Report of the Intergovernmental Panel on Climate Change, pp. 231-290.
- Seneviratne, S.I., N. Nicholls, D. Easterling, C.M. Goodess, S. Kanae, J. Kossin, Y. Luo, J. Marengo, K. McInnes, M. Rahimi, M. Reichstein, A. Sorteberg, C. Vera, and X. Zhang, L.V. Alexander, S. Allen, G. T.Cavazos, J. Clague, D. Conway, P.M. Della-Marta, B.N. Goswami, G. Gerber, S. M. Hemer, V.V. Kharin. A.A. M.G. Klein Tank, G. Li, S. Mason, W. McGuire, B. Orlowsky S. Smith, W. B. van den Hurk., **A. Velegrakis**, P. Yiou, T. Zhang, T.Zhou F. W. Zwiers, **2012**. Changes in climate extremes and their impacts on the natural physical environment. In: Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation [Field, C.B., V. Barros, T.F.

- Stocker, D. Qin, D.J. Dokken, K.L. Ebi, M.D. Mastrandrea, K.J. Mach, G.-K. Plattner, S.K. Allen, M. Tignor, and P.M. Midgley (eds.)). A Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change (IPCC). Cambridge University Press, Cambridge, UK, and New York, NY, USA, pp. 109-230.
- Chatenoux, B., Peduzzi, P., Velegrakis, V., 2012., RIVAMP training on the role of Coastal and Marine ecosystems for mitigating beach erosion : the case of Negril Jamaica, UNEP/GRID-Geneva, Geneva, Switzerland. (<http://archive-ouverte.unige.ch/unige:32371>),
- Estrella, M., Peduzzi, P., **Velegrakis, A.F.**, Chatenoux, B., Kluser, S., **2010**. Linking Ecosystems to Risk and Vulnerability Reduction: The Case of Jamaica. Technical Report of Risk and Vulnerability Assessment Methodology Development Project (RiVAMP), UNEP. 100 pp.
- Voulgaris, G., Collins, M.B., Trowbridge, J.H., Terray E., and Velegrakis, A.F., 2002. Spatial Variability of Bottom Turbulence over a Linear Sandbank: Effects on Vorticity Field and Topography Evolution. Final Report to the Natural Environment Research Council NERC (Grant GST/02/2155), 6 pp.
- Hughes, Z.J., J.J. Williams, A. Velegrakis, P.S. Bell, P. Thorne, and M.B. Collins, 2001. Temporal and spatial variation in the morphology of current related bedform; and sediment transport within a tidal inlet. INDIA MAS3-CT-0106 Final Report Ed O'Connor B.A.C.
- Velegrakis, A.F., Collins, M.B., Owrid, G., and Houghton, A., 2001. Sandbanks of the European Shelf. University of Southampton, School of Ocean and Earth Science Technical Report to WWF SOES/TEC/00/3/C. 401 pp.
- Velegrakis, A.F., Lykousis, V., Papageorgiou, M., and Collins, M.B., 2000. Deep water flows and resuspension in the deep basins of Aegean Sea, Eastern Mediterranean. Final Report, EC MAST III MATER Project, 16pp.
- Lecouturier, M., Grochowski, N.T.L., Bishop, C., Wilkin, M., Avoine J., Levoy, F., Velegrakis A.F. and Collins M.B., 1997. Measurements of Processes at the Sediment/Water Interface. Final Report EC MAST II FLUXMANCHE II Project, pp. 91-107
- Velegrakis, A.F., Bishop, C., Lafite R., E.K. Oikonomou, E.K., Lecouturier, M., Salomon, J.-C. and Collins, M.B., 1997. Investigation of Meso-Scale and Macro-scale Sediment Transport in the English Channel. Final Report, EC MAST II FLUXMANCHE II Project, pp.115-129.
- Lafite R., Dupont J.-P., Hualt M.-F., Detleff, D., Velegrakis A.F., Bishop C., and Collins, M.B., 1997. Large-Scale Sedimentological/Hydrodynamical Field Measurements in the Eastern English Channel. Final Report, EC MAST II FLUXMANCHE II Project, pp.130-136.
- Kontoyiannis, H., Velegrakis, A.F., Theocharis, A., Balopoulos, E., Collins, M.B., Kioroglou, S., Tsimplis, M.N. and Christianidis, S., 1996. Water Fluxes and Current Variability at the Cretan Arc Straits. Final Report CEC/MAST-MTP PELAGOS Project, pp. 49-66.

Εθνικοί Δημόσιοι και Ιδιωτικοί Οργανισμοί

- Velegrakis A.F., O. Andreadis, A. Papakonstantinou, K. Topouzelis, S. Katsanevakis, E. Manoutsoglou, M. Doukari, F. Psarros, P. Anastasiou and Th. Hasiotis, **2016**. Preliminary study on the emerging marine litter problem along the eastern coast of Lesbos. Technical Report DMS/UAegean. 12 pp.
- Μονιούδη, Ι., **Α. Βελεγράκης**, Θ. Καραμπάς, Α. Κομπιάδου, Φ. Ψαρρός, Μ. Βουσδούκας, **2015**. Προγνώσεις παραλιακής οπισθοχώρησης, Δράση 3: Μορφοδυναμικά Μοντέλα. Τελική Τεχνική Έκθεση 'ΘΑΛΗΣ - Επιπτώσεις της Ανόδου της Θαλάσσιας Στάθμης στις Νησιωτικές Παραλίες του Αιγαίου Πελάγους – ISLA'. Επιχειρησιακό Πρόγραμμα "Εκπαίδευση και Δια Βίου Μάθηση". Τμήμα Επιστημών Θάλασσας, Πανεπιστήμιο Αιγαίου. 65 σελ.
- Μονιούδη, Ι., **Α. Βελεγράκης**, Θ. Καραμπάς, **2015**. Συστοιχίες αναλυτικών και αριθμητικών μοντέλων προσομοίωσης. Δράση 3: Μορφοδυναμικά Μοντέλα. Τελική Τεχνική Έκθεση 'ΘΑΛΗΣ - Επιπτώσεις της Ανόδου της Θαλάσσιας Στάθμης στις Νησιωτικές Παραλίες του Αιγαίου Πελάγους – ISLA'. Επιχειρησιακό Πρόγραμμα "Εκπαίδευση και Δια Βίου Μάθηση". Τμήμα Επιστημών Θάλασσας, Πανεπιστήμιο Αιγαίου. 25 σελ.
- Βελεγράκης Α.Φ.** και Χατζηπαυλής Α., **2015**. Συνοπτική παρουσίαση των κυριότερων αποτελεσμάτων του Έργου. Δράση 6: Σύνθεση αποτελεσμάτων. Τελική Τεχνική Έκθεση 'ΘΑΛΗΣ - Επιπτώσεις της Ανόδου της Θαλάσσιας Στάθμης στις Νησιωτικές Παραλίες του Αιγαίου Πελάγους – ISLA'. Επιχειρησιακό Πρόγραμμα "Εκπαίδευση και Δια Βίου Μάθηση". Τμήμα Επιστημών Θάλασσας, Πανεπιστήμιο Αιγαίου. 49 σελ.

- Velegrakis, A.**, Hasiotis, T., Monioudi, I., Manoutsoglou, E., Psarros, F., Andreadis, O. and Tziourou, P., **2013**. Evaluation of climate change impacts on the sea-turtle nesting beaches of the National Marine Park of Zakynthos Protected Area. Final report submitted to the Management Agency of the National Marine Park of Zakynthos, Greece, pp. 97.
- Andreadis, O., Monioudi, I., Chatzipavlis A., Psarros, F. and **Velegrakis, A.F.**, **2012**. Beach Nourishment Investigation of the Tsamakia Beach, Mytilene. Technical Report for the Municipality of Lesvos. 71 pp (in Greek with English abstract).
- Karambas, T., **Velegrakis, A.F.**, Vousdoukas, M.I., Pantazis, A., Andreadis, O. and Meligonits, R., **2008**. Design of artificial beaches and related offshore breakwaters along the eastern Coast of Lesvos, Greece. Technical Report DMS/UOAG/4/2008 (for the Municipality of Mytilene, Lesvos, Greece). 75 pp plus appendices.
- Velegrakis, A.F.**, Hasiotis, Th., Vousdoukas, M. and Meligonitis, R., **2006**. Preliminary assessment of the geological and oceanographic conditions of a marina construction site (Paphos, Cyprus). Technical Report DMS/UOAG/2 /2006/C).
- Tsimplis, M., Woolf, D., **Velegrakis, A.F.**, Challenor, P., Arnell, N., Clark. M., Wakelin, S., Wolf, J., Woodworth, P., Flather, R., Baker, T., Gibb, S., Osborn, T., Watkinson, A., **2004**. Towards a vulnerability assessment of the UK coastline. Final Report 10, Tyndall Centre. 4pp
- Velegrakis, A.F.**, Collins, M.B., and Houghton, A., **2001**. Sediment mobility and morphodynamics of North Middle Grounds, Severn Estuary. University of Southampton, SOES Technical Report SOES/TEC/01/2/C (for the Welsh Office). 46 pp
- Velegrakis, A.F.** and Collins, M.B., **2000**. An expert analysis model of the sedimentology and hydrodynamics of an impacted estuary: Southampton Water, UK. UK EMHASYS Final report (for MAFF UK), 116-136.
- Velegrakis, A.F.** and Bastos A.C., **1999**. Offshore Wind Power: Selection of sites for offshore wind power development. University of Southampton, SOES Technical Report SOES/TEC/99/1/C (for a Consortium of Wind Power companies). 31 pp.
- Velegrakis, A.F.**, Brand C. and Collins, M.B., **1999**. Geology and geomorphological evolution of the Severn Estuary and the Bristol Channel with special reference to marine aggregate deposits. University of Southampton, SOES Technical Report SOES/TEC/99/2/C (for the Welsh Office). 45 pp.
- Velegrakis, A.F.**, Tsimplis M.N. and Collins, M.B., **1998**. The Treasures of Cocos Island, Costa Rica: Preliminary Report. University of Southampton, School of Ocean and Earth Science, Technical Report SOES/TEC/98/5/C. 34 pp.
- Brand, C., **Velegrakis, A.F.**, Rasul, N., Gunn, D., Paphitis, D. and Collins, M.B., **1998**. Evaluation of the Marine Aggregate Resource of the Welsh Grounds, Severn Estuary. University of Southampton, Department of Oceanography Technical Report, SUDO/TEC/97/15/C (for Severn Sands Ltd). 88 pp.
- Bate, R., **Velegrakis, A.F.**, Brand, C., Collins, M.B. and Nunn, A., **1997**. Deep Water and Inshore Aggregates Exploitation, Research Report (for the Countryside Council of Wales), 91 pp.
- Velegrakis, A.F.**, Lee, M.W.E., Dix, J.K. and Collins M.B., **1996**. Evaluation of Waste Coal Deposits Offshore Lavernock Point, Bristol Channel. University of Southampton, Department of Oceanography Technical Report, SUDO/TEC/96/1/C (Severn Sands Ltd). 85 pp.
- Velegrakis, A.F.**, Voulgaris, G., and Collins M.B., **1994**. Operation 'Nebby': Location of 'items' Discarded by "BALANUS/ABUNDANCE", Based upon Geophysical and Hydrodynamical Data. University of Southampton, Department of Oceanography Technical Report SUDO/TEC/94/14/C (for the HM Customs and Excise). 44 pp.
- Velegrakis, A.F.**, Gao S., and Collins M.B., **1994**. Independent Assessment of Marine Aggregate Extraction over Hastings Shingles Bank. University of Southampton, Department of Oceanography Technical Report SUDO/TEC/94/15/C (for the UK Department of Environment). 70 pp
- Velegrakis, A.F.** and Collins, M.B., **1993**. Marine Aggregate Evaluation of the Eastern Flank of Shingles Bank. University of Southampton, Department of Oceanography Technical Report SUDO/TEC/93/9/C (for the New Forest District Council). 48 pp.
- Velegrakis, A.F.**, **1993**. Block 98/12: Geological Hazards for selected drilling sites based on shallow marine geophysics. University of Southampton, Department of Oceanography Technical Report SUDO/TEC/93/6/C (for ELF Caledonian Enterprise). 30pp Confidential Report.
- Velegrakis, A.F.** and Collins M.B., **1992**. Marine Aggregate Evaluation of Shingles Bank, Christchurch Bay. University of Southampton, Department of Oceanography Technical Report SUDO/TEC/92/14/C (for the New Forest District Council). 110 pp.

- Velegrakis, A.F.,** Tomalin D.J. and Collins M.B., **1992.** Poole Bay Project: An Appraisal of the Seabed Archaeological Potential, Based on the Analysis of Geophysical Data. University of Southampton, Department of Oceanography Technical Report SUDO/TEC/92/13/C (to BP Exploration). 112 pp.
- Velegrakis, A.F.,** Collins, M.B. and Hobson, C., **1991.** Marine Aggregate Evaluation of Ennemix Area 6. University of Southampton, Department of Oceanography Technical Report, SUDO/TEC/91/12/C (for the Ennemix Ltd). 103pp.
- Velegrakis, A.F.** and Collins, M.B., **1991.** Coarse-grained sediment deposits over the eastern Christchurch Bay: A Preliminary Report. University of Southampton, Department of Oceanography Technical Report, SUDO/TEC/91/19/C (for the New Forest District Council). 40 pp.