Bibliografía sobre investigaciones marinas, oceanográficas, geológicas y atmosféricas en el Parque Nacional Isla del Coco y aguas adyacentes, Pacífico de Costa Rica

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Abstract: Bibliography on marine, oceanographic, geological and atmospheric research at Isla del Coco Nacional Park and adjacent waters, Pacific Costa Rica. Isla del Coco (also known as Cocos Island), Pacific Costa Rica, has been visited and written about since the 16th Century, and since the late 1800's many expeditions and scientists have carried out research in the Island. Here I compiled publications on marine biological, geological, oceanographic and atmospheric research done at Isla del Coco. A list of 599 scientific papers and chapters were compiled, together with 41 books, reports, Special Issues, theses and web sites, and ten historic books with descriptions of marine animals or environemnets. A mayority of the publications (425 or 66.4%) are related to marine biodiversity topics (species descriptions and lists of species); the most published groups are gastropods (81 papers), decapods (67) and bony fishes (66). There are no publications of several groups of animals that have been observed in the Island, for example free-living flat worms, parasites and nemerteans among others. Other topics with a large number of publications are, biogeography with 65, ecology (61) and geology (48); the most studied ecosystem are coral reefs with 14 papers. More publications are needed on many topics, such as impact of ilegal fishing and climate change on Isla del Coco National Park marine flora and fauna. Citation: Cortés, J. 2012. Bibliografía sobre investigaciones marinas, oceanográficas, geológicas y atmosféricas en el Parque Nacional Isla del Coco y aguas adyacentes, Pacífico Costa Rica. Rev. Biol. Trop. 60 (Suppl. 3): 363-392. Epub 2012 Dec 01.

Key words: Parque Nacional Isla del Coco, Cocos Island, Costa Rica, bibliography, biodiversity, marine ecosystems, atmospheric science, physical oceanography, chemical oceanography, geology.

Sobre la Isla del Coco se han publicado muchos trabajos desde hace varios siglos (Montoya 2007, ver referencias de libros históricos al final) y desde finales del Siglo XIX ha habido una gran cantidad de expediciones e investigaciones en el área marina de la Isla (Cortés 2008). Mucha de esta literatura es de dificil acceso y en algunos casos hasta desconocida por muchos científicos. El objetivo de este trabajo es recopilar las publicaciones científicas sobre investigaciones marinas, geológicas, oceanográficas y atmosféricas desarrolladas en el Parque Nacional Isla del Coco y aguas adyacentes, Pacífico de Costa Rica. Se presentan los resultados de análisis sobre las áreas de investigación, los grupos marinos y ecosistemas marinos más estudiados. Se espera que esta recopilación sirva de base y motivación para impulsar las investigaciones científicas en esa región y en el resto de Pacífico Tropical Oriental.

La lista de publicaciones incluye 599 referencias de artículos científicos y capítulos en libros, más, 41 tesis, libros, volúmenes especiales, memorias de reuniones, informes sobre investigaciones marinas, oceanográficas, geológicas y atmosféricas y un sitio web, y diez libros históricos en los que se mencionan aorganismos y ambientes marinos de la Isla del Coco. El área de investigación del cual

hay más publicaciones es sobre biodiversidad (taxonomía, listas de especies), con 425 trabajos (66.4%), de los cuales, de los gasterópodos es de los que hay más publicaciones (81) seguido por los crustáceos decápodos con 67 y peces óseos con 66 (Cuadro 1). No hay publicaciones sobre algunos grupos aunque han sido observados en el Parque Nacional Isla del Coco, por ejemplo, gusanos planos de vida libre, nemertinos y parásitos (Cortés 2012). En cuanto a temas del que más publicaciones hay es biogeografía (65 publicaciones), seguido por ecología con 61 y geología con 48 (aunque solamente hay un trabajo de la geología general de la Isla del Coco: Rojas & Alvarado 2012). El ecosistema más estudido ha sido los arrecifes. Del tema de las actividades socio-económico relacionado con los organismos y ambientes marinos hay una publicación reciente (Moreno-Díaz 2012), pero hacen falta más estudios.

Aunque la mayoría de las publicaciones son sobre biodiversidad marina, todavía falta mucho por conocer y en especial sobre la historia natural y estatus de las poblaciones de esas especies. Se necesita desarrollar más trabajos sobre la oceanografía física y química del Parque como también sobre el plancton. Finalmente, no hay un solo estudio sobre el impacto de la pesca alrededor del Parque o sobre la pesca ilegal dentro del Parque (actividad que afortunamente es poca, pero existe). También faltan trabajos sobre el posible impacto del turismo y del cambio climático sobre los organismos y ambientes marinos del Parque Nacional Isla del Coco.

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RESUMEN

Isla del Coco, Pacífico de Costa Rica, ha sido visitada y se ha escrito sobre ella desde el Siglo XVI. Desde finales del Siglo XIX muchas expediciones han desarrollado investigaciones en el Isla. Aquí compilo las publicaciones sobre biología y geología marina, oceanografía física y química, ciencias atmosféricas y algunos temas sociales. Una lista de 599 artículos y capítulos, 41 libros, Suplementos, tesis, informes y un sitio de internet es incluida, v diez libros históricos donde se describen organismos y ambientes marinos de la Isla del Coco. La mayoría de las publicaciones (425 o 66.4%) son sobre biodiversidad marina (descripciones, listas y distribuciones de especies). De los grupos que más publicaciones hay son de los gasterópodos (81 trabajos), decápodos (67) y peces óseos (66). No hay publicaciones de varios grupos de animales que han sido observados en Isla del Coco, por ejemplo, gusanos planos de vida libre, parásitos o nemertinos, entre otros. Temas con muchas publicaciones son: biogeografía con 65, ecología (61) y geología (48); los ecosistemas más estudiados son los arrecifes coralinos con 14 trabajos. Se necesitan más publicaciones en muchos tópicos, tales como el impacto sobre la flora y fauna del Parque Nacional Isla del Coco de la pesca ilegal y el cambio climático.

Palabras claves: Parque Nacional Isla del Coco, Costa Rica, bibliografía, biodiversidad, ecosistemas marinos, ciencias atmosféricas, oceanografía física, oceanografía química, geología.

CUADRO 1 Número de publicaciones de cada tema y el código usado en la lista de referencias

TABLE 1

Number of publications by topic and the codes used in the references list

| Tema | # Publ. | Tema | # Publ | . Tema | # Publ. |
|------------------------------------|---------|------------------------------------|--------|----------------------------------|---------|
| Al = Algas | 8 | Cv = Conservación | 14 | MS = Montes Submarinos | 3 |
| Ap = Apendicularias | 1 | CVC = Cordillera Volcánica de Coco | 4 | OF = Oceanografía Física | 16 |
| Ar = Arrecifes | 14 | DCR = Domo de Costa Rica | 1 | OQ = Oceanografía Química | 3 |
| Av = Aves | 23 | Di = Dinoflagelados | 1 | Pc = Picnogónido | 3 |
| Ba = Braquiópodos | 4 | DR = Dataciones Radiométricas | 6 | Pe = Pesquería | 2 |
| Bb = Bibliografía | 3 | Ec = Echinodermata | 14 | Ph = Forónidos | 1 |
| Bd = Biodiversidad | 425 | EcA = Asteroideos, Echinodermata | 5 | PiA = Peces óseos | 66 |
| Be = Bentos | 1 | EcE = Equinoideos, Echinodermata | 14 | PiE = Peces cartilaginosos | 41 |
| Bg = Biogeografía | 65 | EcH = Holoturoideos, Echinodermata | 5 | PIF = Fitoplancton | 2 |
| Bi = Bioerosión | 2 | EcO = Ofiuroideos, Echinodermata | 5 | PlZ = Zooplancton | 5 |
| Br = Briozoarios | 6 | Eg = Ecología | 61 | Po = Esponjas | 4 |
| B&A = Bacterias y Arquea | 1 | ENOS = El Niño-Oscilación del Sur | 5 | PP = Productividad Primaria | 1 |
| CA = Ciencias Atmosféricas | 14 | Ep = Expediciones | 29 | PpC = Parásitos peces, Copépodos | 1 |
| CC = Cambio Climático | 4 | Er = Echiúridos | 2 | Py = Polychaeta | 10 |
| Ce = Cefalocordados | 1 | Ev = Evolución | 9 | Qt = Quetognatos | 2 |
| Cm = Comportamiento | 8 | Fo = Foraminíferos | 6 | Ro = Rodolitos | 1 |
| Cn = Cnidaria | 5 | Ge = Geología | 48 | Rp = Reptiles | 5 |
| CnA = Antozoarios, Cnidaria | 24 | Gg = Geografía | 1 | Sa = Salpas | 1 |
| CnH = Hydrozoarios, Cnidaria | 10 | Gn = Genética | 11 | Sd = Sedimentos | 2 |
| CnM = Medusas, Cnidaria | 4 | Go = Geomorfología | 7 | SE = Estudios socio-económicos | 1 |
| Co = Colecciones/museos | 1 | Hi = Historia | 26 | Si = Sipuncúlidos | 3 |
| Cr = Crustacea | 6 | IM = Insectos Marinos | 2 | Sm = Simposio | 2 |
| CrA = Anfipodos, Crustacea | 9 | Inf = Informes | 7 | Te = Tesis | 7 |
| CrC = Copépodos, Crustacea | 3 | Li = Libros | 20 | TP = Tectónica de placas | 20 |
| CrD = Decápodos, Crustacea | 67 | Lg = Legislación | 2 | Tx = Toxicidad | 1 |
| CrI = Isópodos, Crustacea | 4 | Mm = Mamíferos marinos | 16 | Vu = Vulcanología | 17 |
| CrM = Misidáceos, Crustacea | 1 | Mo = Mollusca | 34 | VC = Variabilidad Climática | 4 |
| CrP = Cirripedios, Crustacea | 4 | MoB = Bivalvos, Mollusca | 23 | VE = Volumen Especial/Suplemento | 2 |
| CrS = Estomatópodos, Crustacea | 6 | MoC = Cefalópodos, Mollusca | 7 | Vi = Virus | 1 |
| CrT = Tanaidáceos, Crustacea | 2 | MoG = Gasterópodos, Mollusca | 81 | ZP = Zonas Profundas | 11 |
| CtP = Contaminación, Petróleo | 1 | MoP = Quitones, Mollusca | 5 | ZR = Zonas Rocosas | 3 |
| CtR = Cotaminación, Radionucléidos | 1 | Mp = Mapas | 5 | | |

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TESIS Y LIBROS SOBRE INVESTIGACIONES MARINAS, GEOLÓGICAS Y ATMOSFÉRICAS EN EL PARQUE NACIONAL ISLA DEL COCO, COSTA RICA

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