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AN INTEGRATED ENVIRONMENTAL INFORMATION SERVICE FOR CUBA

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Ministry of Science, Technology and Environment
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Introduction

1. The national focal point for INFOTERRA-Cuba is located in the Centre for Environmental Information, Management and Education (CIGEA) under the Environmental Agency of the Ministry of Science, Technology and Environment. CIGEA welcomes the opportunity to report to the INFOTERRA 2000 Global Conference on Access to Environmental Information on the actions it has undertaken to reactivate existing mechanisms to guarantee the establishment of an integrated environmental information system. This is done in response to the decisions adopted by the Governing Council of the United Nations Environment Programme (UNEP) at its twentieth session on the reform of INFOTERRA (Decision 20/5) and on the promotion of actions to guarantee improved access to environmental information (Decision 20/4).

2. CIGEA is committed to the task of facilitating greater access to environmental information in Cuba and to the development of INFOTERRA. Taking into consideration the tasks that the focal point has been coordinating up to the present time, a directory of information providers has been compiled, which contains a total of 61 institutions identified as possible providers and users of information. The *National Environmental Strategy* has identified the environmental issues relevant to Cuba. The Cuban INFOTERRA focal point proposes a series of actions aimed at revitalising the work of this network in the national sphere. This report consists of:

- (a) An action plan on the revitalisation of the INFOTERRA network in Cuba;
- (b) A list of the environmental issues deemed relevant to Cuba (Annex I); and
- (c) A list of institutions identified as information providers on the priority issues (Annex II).

Action plan for the establishment of an integrated environmental information service in Cuba

3. The revitalisation of INFOTERRA coincides with the process of restructuring the national information system, which is part of the implementation of the national information policy under

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development in the country. The Centre for Environmental Information, Management and Education (CIGEA) is the coordinator of this restructuring.

4. Furthermore, the coordinating activities the Centre has undertaken with the principal organs of the central administration of the State and the Environmental Agency regarding environmental issues, along with the information exchange it has effected with the 13 provincial Technological Information and Management Centres, are important elements that indicate that INFOTERRA-Cuba is in a position to advance this task.

5. Taking into account the great need for information on which to base environmental decision-making, the Cuban INFOTERRA focal point, based in CIGEA, is working to establish in Cuba an integrated environmental information network, for which it proposes the following action plan:

Action Plan

1. Compile the list of governmental and non-governmental institutions identified as possible sources of information for the network.
Date: 30 June 2000
2. Prepare a list of environmental subjects relevant to the country, specifying for each the institutions processing and able to disseminate pertinent information.
Date: 30 June 2000
3. Send a letter to each of the identified institutions to determine their interest in participating in the network.
Date: 30 June 2000
4. Formulate and send a questionnaire to the institutions to gather details on experts, web sites, projects, databases, lists of publications, etc., in order to obtain a clear vision of the type of information and services that exist at the national level.
Compile the information and create a database.
Date: 15 July 2000
5. Gather the institutions at the Second Workshop on Environmental Information from 26 - 27 October 2000 and include on the agenda the official reactivation of the network, under the title "Creation and promotion of methods of cooperation for promoting access to environmental information."
Date: 30 June 2000
6. Elaborate a network plan of action through the year 2001 and present it for analysis and discussion to the information workshop.
Date: 15 September 2000
7. Coordinate a series of seminars for the members of the network on the following subjects:
 - Cuban environmental policy. The principal of the public's right to know.
 - Mass media and the importance of environmental information.
 - The impact of environmental information on environmental education.
8. Prepare an informative notebook with relevant materials for World Environment Day.
Date: 15 May 2001
9. Supplement the information on the CIGEA web site concerning the INFOTERRA-Cuba network and maintain it up-to-date.
Date: 30 October 2000

10. Create a distribution list to electronically link providers and users of environmental information interested in environmental subjects.
Date: 30 November 2000
11. Elaborate institution strengthening projects with the aim of:
 - Promoting communications among the network participants;
 - Compiling a national bibliography on the environment and development.Date: 2000-2001
12. Propose to UNEP that it evaluate the feasibility of the application of a methodology for conducting studies of the formation and information needs of users, which has been under development in Cuba since the 1980s.
Date: 30 June 2000
13. Send periodically information to UNEP (Division of Environmental Information, Assessment and Early Warning) regarding the results of INFOTERRA-Cuba.
Date: To be determined
14. Disseminate through the media the official reactivation of the information network.
Date: October

Conclusion

6. It should be highlighted that CIGEA possesses valuable information on environmental matters, and that it has digitised and compiled in a database Cuban environmental legislation setting out laws, decrees, technical standards and other forms of legislation of vital importance for all interested in these matters. CIGEA also has other databases of environmental indicators, technical memoranda and environmental bibliographies at the disposal of users. Furthermore, the UNEPnet-Mercure node offers services such as electronic mail, discussion groups and the Internet.

7. Furthermore, as noted in point 12 of the plan of action, CIGEA proposes that UNEP evaluate a methodology developed by CIGEA for conducting studies of the training and information needs of users, which has been under development in Cuba since the 1980s. This methodology is presently in use at CIGEA, with the aim of designing services that accord with the current demand for information.

8. In a similar vein, development is anticipated of a project for the elaboration of national bibliography of environment and development sources, which is expected to enjoy the participation of the principal institutions that generate such information. A search is under way for financing to ensure the completion of this project.

9. Finally, CIGEA wishes to emphasize the importance of revitalising INFOTERRA in Cuba, recognizing that there is a growing demand for environmental information, in response to which it is necessary to implement services through cooperation among institutions that are not only suppliers of environmental information, but also users of environmental information.

Annex I

Listing of subject matter areas (based on the principal environmental problems identified in the National Environmental Strategy) and of institutions that can provide related information

Soil degradation

Centre for Information and Documentation on Agriculture and Animal Husbandry (Centro de Información y Documentación Agropecuaria) (CIDA)

Institute for Basic Research on Tropical Agriculture (Instituto de Investigaciones Fundamentales de la Agricultura) (INIFAT)

National Soils and Fertilizers Centre (Centro Nacional de Suelos y Fertilizantes)

Soils Institute (Instituto de Suelos)

Library of the Ministry of Sugar (Biblioteca del Ministerio del Azúcar)

Cuban Institute for Sugar-related Research (Instituto Cubano de Investigaciones Azucareras) (ICINAZ)

Managing Committee of the Cuban Association for Organic Farming (Grupo Gestor de la Asociación Cubana para la Agricultura Orgánica) (ACAO)

Deforestation

Centre for Information and Documentation on Agriculture and Animal Husbandry (Centro de Información y Documentación Agropecuaria) (CIDA)

Institute for Forestry Research (Instituto de Investigaciones Forestales)

Soils Institute (Instituto de Suelos)

Institute for Basic Research on Tropical Agriculture (Instituto de Investigaciones Fundamentales de la Agricultura) (INIFAT)

Managing Committee of the Cuban Association for Organic Farming (Grupo Gestor de la Asociación Cubana para la Agricultura Orgánica) (ACAO)

Pollution of seas and inland waters

Oceanology Institute (Instituto de Oceanología)

National Aquarium of Cuba (Acuario Nacional de Cuba)

Centre for Marine Research (Centro de Investigaciones Marinas)

Centre for Information on Water and Rehabilitation (Centro de Información de Agua y Saneamiento) (INRH)

Centre for Information and Documentation on Agriculture and Animal Husbandry (Centro de Información y Documentación Agropecuaria) (CIDA)

National Centre for Medical Sciences Information (Centro Nacional de Información de Ciencias Médicas)

Centre for Engineering and Environmental Management of Bays and Coasts (Centro de Ingeniería y Manejo Ambiental de Bahías y Costas) (CIMAB)

Centre for Fisheries Research (Centro de Investigaciones Pesqueras)

Centre for Coastal Ecosystems Research (Centro de Investigaciones de Ecosistemas Costeros)

GEOCUBA

Loss of biological diversity

National Centre for Biological Safety (Centro Nacional de Seguridad Biológica)

Institute for Ecology and Systematics (Instituto de Ecología y Sistemática)

Oceanology Institute (Instituto de Oceanología)

Soils Institute (Instituto de Suelos)

Centre for Marine Research (Centro de Investigaciones Marinas)

Centre for Coastal Ecosystems Research (Centro de Investigaciones de Ecosistemas Costeros)

Eastern Centre for Biodiversity and Ecosystems (Centro Oriental de Biodiversidad Y Ecosistemas)

National Aquarium of Cuba (Acuario Nacional de Cuba)

National Museum of Natural History (Museo Nacional de Historia Natural)
National Zoological Park (Parque Zoológico Nacional)
National Centre for Protected Areas (Centro Nacional de Areas Protegidas)
National Botanical Garden (Jardín Botánico Nacional)

Impairment of the guarantee of shelter and of the environmental conditions in human settlements

Society for Housing and Urban Planning “Habitat Cuba” (Sociedad para la Vivienda y el Urbanismo “Hábitat Cuba”)
Centre for Demographic Studies (Centro de Estudios Demográficos)
Centre for Hydrology and Water Quality (Centro de Hidrología y Calidad de las Aguas)
National Institute for Water Resources (Instituto Nacional de Recursos Hidráulicos)
National Centre for Medical Sciences Information (Centro Nacional de Información de Ciencias Médicas)
Institute of Hygiene, Epidemiology and Microbiology (Instituto de Higiene, Epidemiología y Microbiología)
Physical Planning Institute (Instituto de Planificación Física)
Meteorology Institute (Instituto de Meteorología)
Institute of Tropical Geography (Instituto de Geografía Tropical)
Latin American Centre for Disasters (Centro Latinoamericano de Desastres)

Energy

Centre for Energy Information (Centro de Información de la Energía) (CIEN)
Centre for Solar Energy Research (Centro de Investigación de la Energía Solar) (CIES)
CUBASOLAR. Cuban Society for the Promotion of Renewable Sources of Energy (Sociedad Cubana para la Promoción de las Fuentes Renovables de Energía)

Environmental education

Centre for Environmental Information, Management and Education (Centro de Información, Gestión y Educación Ambiental)
National Aquarium of Cuba (Acuario Nacional de Cuba)
National Museum of Natural History (Museo Nacional de Historia Natural)
National Zoological Park (Parque Zoológico Nacional)
National Botanical Garden (Jardín Botánico Nacional)
Metropolitan Park of Havana (Parque Metropolitano de La Habana)
Núñez Jiménez Foundation for Man and Nature (Fundación Núñez Jiménez de la Naturaleza y el Hombre)

Annex II

List of governmental and non-governmental sources of information in the INFOTERRA-Cuba information network

1. National Aquarium of Cuba (Acuario Nacional de Cuba) (AN)
Address: Calle 1ª Y Ave. 60, Diramar, Playa, CP 11300, Ciudad de La Habana, Cuba
E-mail: acuاريو@unepnet.inf.cu
Tel: (53 7) 236401-06
Fax: (53 7) 241442
2. Centre for Environmental Control and Inspection (Centro de Inspección y Control Ambiental) (CICA)
Address: Calle 20 Edif. A. e/41 y 47, Playa, CP. 11300, Ciudad de La Habana, Cuba
E-mail: cica@unepnet.inf.cu
Tel: (53 7) 227573
Fax: (53 7) 240556
3. Centre for Bioactive Marine Resources (Centro de Bioactivos Recursos Marinos) (CEBIMAR)
Address: Loma y 37, Alturas del Vedado, Plaza de la Revolución, Ciudad de La Habana, Cuba
E-mail: cebimar@unepnet.inf.cu
Tel: (53 7) 811298/819300/819650
4. Centre for Demographic Studies (Centro de Estudios Demográficos) (CEDEM)
Address: Avenida 41, No. 2003, entre 20 y 22, Miramar, Ciudad de La Habana, Cuba
Tel: 228185/228296/228141
5. Centre for Hydrology and Water Quality (Centro de Hidrología y Calidad de las Aguas) (CENHICA-INRH)
Address: Moserrate 213, Apdo. 23, General Peraza 19210, Centro Habana, Cuba
Tel: (53 7) 639542/620509
Fax: (53 7) 330680
6. Centre for Technology Information and Management. Pinar del Río (Centro de Información y Gestión Tecnológica. Pinar del Río.)
Address: Multisectorial de ICT Colon No. 106 entre Maceo y Virtudes Pinar del Río, CP 20100, Apdo .10
E-mail: Blanco.dpc@cqt.caonao.inf.cu
Tel: 0 82 2232
7. Centre for Technology Information and Management, Matanzas (Centro de Información y Gestión Tecnológica. Matanzas)
Address: Calle Jovellanos No. 5 e/ Medio y Rio Matanzas, Matanzas
E-mail: carlos@atenas.inf.cu
Tel: 0 52 2483
8. Centre for Technology Information and Management, Cienfuegos (Centro de Información y Gestión Tecnológica. Cienfuegos)
Address: Ave. 52 No. 2316 e/23 y 25, Cienfuegos
E-mail: eric@perla.inf.cu
Tel: 0 432 9732

9. Centre for Technology Information and Management, Villa Clara (Centro de Información y Gestión Tecnológica. Villa Clara)
Address: Cuba No. 364 e/ Carretera Central y Serafín Sánchez
E-mail: Gestmerc@quatum.inf.cu
Tel: 0 422 73567
10. Centre for Technology Information and Management, Sancti Spiritus (Centro de Información y Gestión Tecnológica. Sancti Spiritus)
Address; Carretera Central esq. Ave. De los Mártires
E-mail: fidict@yayabo.inf.cu
Tel: 0 4123956/0 41 24169
11. Centre for Technology Information and Management, Ciego de Avila (Centro de Información y Gestión Tecnológica. Ciego de Avila)
Address: Delegación No. 85 e/ Maceo y Honorato del Castillo (oeste)
E-mail: Nmonzon@fica.inf.cu
12. Centre for Technology and Information Management. Camagüey (Centro de Información y Gestión Tecnológica. Camagüey)
Address: General Gómez No. 325 e/ San Miguel y Perro
E-mail: maeugenia@caonao.inf.cu
Tel: 0 322 97901
13. Centre for Technology Information and Management, Holguín (Centro de Información y Gestión Tecnológica. Holguín)
Address: Morales Lemus No. 273 e/ Cables y Angel Guerra
E-mail: ghitec@holguin.inf.cu
Tel: 0 24 422203
14. Centre for Technology Information and Management, Las Tunas (Centro de Información y Gestión Tecnológica. Las Tunas)
Address: Maceo No. 31 e/ Lucar Ortiz y Lico Cruz, Las Tunas
E-mail: axelm@Itunas.inf.cu
Tel: 0 31 43345
15. Centre for Technology Information and Management, Santiago de Cuba (Centro de Información y Gestión Tecnológica. Santiago de Cuba)
Address: Pío Rosado (carnicería) No. 457 e/ San Jerónimo y Enramada
E-mail: odalys@ciges.inf.cu
Tel: 0 226 28291
16. Centre for Technology Information and Management, Granma (Centro de Información y Gestión Tecnológica. Granma)
Address: Carretera Santiago de Cuba KM3 1/2 Rpto. Viviendas Campesinas, Bayamo
E-mail: casate@granma.inf.cu
Tel: 0 23 481217
17. Centre for Technology Information and Management, Guantánamo (Centro de Información y Gestión Tecnológica. Guntánamo)
Address: Ahogados No. 14 Rpto. Caribe
E-mail: Cmjct@gtmo.inf.cu
Tel: 0 21 382070

18. Centre for Technology Information and Management, Isla de la Juventud (Centro de Información y Gestión Tecnológica. Isla de la Juventud)
Address: Calle 41 No. 4625 e/ 48 y 54 Apdo 1448, Nueva Gerona
E-mail: cmictij@cenial.inf.cu
Tel: 0 61 24570
19. National Centre for Biological Safety (Centro Nacional de Seguridad Biológica)
Address: Calle 28 No. 502 e/ 5a. y 7a. Playa, C. Habana
E-mail: cnsb@unepnet.inf.cu
Tel: (53 7) 797531
Fax: (53 7) 333523
20. Centre for Water and Rehabilitation. National Institute for Water Resources (Centro de Información de Agua y Saneamiento Instituto Nacional de Recursos Hidráulicos)
Address: Monserrate No. 213, e/Tejadillo y Empedrado. Habana Vieja, Habana 1, CP. 10100, Ciudad de La Habana, Cuba
Tel: (53 7) 622511/620509
Fax: (53 7) 330680
21. Centre for Energy Information (Centro de Información de la Energía (CIEN))
Address: Calle 20 No. 4113 entre 18 A y 47, Playa AP 6093, Ciudad de La Habana, Cuba
E-mail: cien@cien.energia.inf.cu
Tel: (53 7)7227527/296691
Fax: (53 7) 241188
22. Centre for Information and Documentation on Agriculture and Animal Husbandry (Centro de Información y Documentación Agropecuaria (CIDA))
Address: Conill sn, entre Ave. Independencia y Marino, Plaza de la Revolución, CP 10600, AP 4149
Ciudad de La Habana, Cuba
Tel: (53 7) 818808/845419/845507
Fax: (53 7) 335086
23. Centre for Environmental Information, Management and Education (Centro de Información, Gestión y Educación Ambiental (CIGEA))
Address: Calle 18-A, no. 4114 entre 41 y 47, CP 11300, Playa, Ciudad de La Habana, Cuba
E-mail: cidea@unepnet.inf.cu
Tel: (53 7) 296014/201514
Fax: (53 7) 249031
24. Centre for Environmental Engineering and Management of Bays and Coasts (Centro de Ingeniería y Manejo Ambiental de Bahías y Costas (CIMAB))
Address: Carretera del Asilo s/n, Fca. Tiscornia, Casablanca, Regla A.P. 11700, Ciudad de La Habana, Cuba
E-mail: iitransp@cenial.inf.cu
Tel: (53 7) 624387
Fax: (53 7) 338250

25. Centre for Research on Saline Soils. Soils Institute (Centro de Investigación de Suelos Salinos. Instituto de Suelos)
Address: 3 este e/ Pintó y La Avenida, No. 1158, C. Deportiva, Guantánamo, Cuba
Tel: 323873
26. Centre for Coastal Ecosystems Research (Centro de Investigaciones de Ecosistemas Costeros)
Address: Cayo Coco, Morón, Ciego de Avila, C.P. 69400, Cuba
Tel: 301161/301193
Fax: 301151
27. Centre for Marine Research (Centro de Investigaciones Marinas (CIM))
Address: Ave. Ira. No. 2808 esq. 30, Miramar, Playa, CP 11300, Ciudad de La Habana, Cuba
E-mail: cim@comuh.uh.cu
Tel: (53 7) 221676
Fax: (53 7) 322757/333295/73231
28. Centre for Information and Documentation. Ministry of Fisheries (Centro de Información y Documentación. Ministerio de la Industria Pesquera)
Address: 5a. Ave. y Calle 248, Edificio No.2, Barlovento, Playa, Ciudad de La Habana, Cuba
E-mail: cubacip@ceniai.inf.cu
Tel: (53 7) 297851-53/297875
Fax: (53 7) 339168
29. Latin American Centre for Disasters (Centro Latinoamericano de Desastres (CLAMED))
Address: Calle 18 No. 710 e/7 y 29, Miramar, Playa, Ciudad de La Habana
E-mail: clamed@clamed.sld.cu
Tel: 223636/223644/223513
Fax: 248806
30. National Centre for Protected Areas (Centro Nacional de Areas Protegidas (CNAP))
Address: Calle 18-A No. 4114 entre 41 y 47, C.P. 11300, Playa, Ciudad de La Habana, Cuba
E-mail: cnapt@unepnet.inf.cu
Tel: 227970
Fax: (53 7) 339708
31. National Centre for Medical Sciences Information (Centro Nacional de Información de Ciencias Médicas (CNICM))
Address: Calle E No. 454, entre 19 y 21, Vedado, Plaza de la Revolución, CP 10400, Ciudad de La Habana, Cuba
E-mail: cnicm@infomed.cu
Tel: (53 7) 322004
Fax: (53 7) 333063
32. National Centre for Soils and Fertilizers (Centro Nacional de Suelos y Fertilizantes)
Address: Calle 150 No. 2123 entre 21A y 25, Siboney, Playa, Ciudad de La Habana, Cuba
Tel: (53 7)210487/217179/215013

33. Eastern Centre for Biodiversity and Ecosystems (Centro Oriental de Biodiversidad y Ecosistemas (BIOECO))
Address: José A. Saco No. 601, Esq. Barnada. C.P. 90100, Santiago de Cuba, Cuba
E-mail: direcc@bioeco.ciges.cu
Tel: (53 226) 23277-53539
Fax: (53 226) 41579
34. CESIGMA – American Division (CESIGMA-División América)
Address: Calle 13, No. 409 esq. F, Vedado, Ciudad de La Habana, Cuba
E-mail: gerencia@cesigma.com.cu
Tel: 323494
Fax: (53 7) 333820
35. Antonio Núñez-Jiménez Foundation for Man and Nature (Fundación Antonio Núñez Jiménez de la Naturaleza y el Hombre)
Address: 5a.B No. 6611 entre 66 y 70, Miramar, Ciudad de La Habana, Cuba
E-mail: funapro@artsoft.cult.cu
Tel: (53 7)292885/242985
Fax: (53 7) 240438
36. GEOCUBA. Marine Studies (GEOCUBA. Estudios Marinos)
Address: Punta Santa Catalina, Regla, Ciudad Habana, Cuba.CP.11200
E-mail: emarinos@unepnet.inf.cu
Tel: (53 7) 977575
Fax: (53 7) 242869
37. Cuban Institute for Sugar-related Research (Instituto Cubano de Investigaciones Azucareras (ICINAZ))
Address: Central Pablo Noriega, A.P. 10154, Quivicán, La Habana, Cuba
Tel: (53 7) 67-55445/55565
Fax: (53 7) 333193
38. Institute for Ecology and Systematics (Instituto de Ecología y Sistemática (IES))
Address: Carretera Varona, Km.32, Capdevila, Boyeros, AP 8010, CP 10800, Ciudad de La Habana, Cuba
E-mail: ecologia@ceniai.inf.cu; ecologia@unepnet.inf.cu
Tel: (537) 448419/446335/446927
39. Institute for Geophysics and Astronomy (Instituto de Geofísica y Astronomía (IGA))
Address: Ave. 212 No. 2906, entre 29 y 31, La Lisa, CP 17100, Ciudad de La Habana, Cuba
E-mail: iga@unepnet.inf.cu
Tel: (53 7) 218564/218435/218416
40. Institute for Tropical Geography (Instituto de Geografía Tropical (IGT))
Address: Calle 13 No. 409, esq. F, Vedado, Plaza, CP 10400, Ciudad de La Habana, Cuba
E-mail: geotech@ceniai.inf.cu; geotrop@unepnet.inf.cu
Tel: (53 7) 324295/324293
Fax: (53 7) 662236

41. Institute for Water Economics (Instituto de Hidroeconomía)
Address: Monserrate No. 258 entre Animas y Neptuno, Habana Vieja, Apdo. Postal 6533, Ciudad de La Habana, Cuba
Tel: 66917
42. Institute for Plant Health Research (Instituto de Investigaciones de Sanidad Vegetal (NISAV))
Address: Calle 100 No.514 entre 5ta.B y 5ta.F., Miramar, Ciudad de La Habana, Cuba
Tel: (53 7) 223720
43. Institute for Forestry Research (Instituto de Investigaciones Forestales)
Address: Calle 174 No. 1723, entre 17 B y 17 C, Siboney, Playa, Ciudad de La Habana, C.P. 11600, Cuba
Tel: (53 7) 214935/212145
44. Alejandro de Humboldt Institute for Basic Research on Tropical Agriculture (Instituto de Investigaciones Fundamentales en Agricultura Tropical "Alejandro de Humboldt" (INIFAT))
Address: Calle 1 y 2, Santiago de Las Vegas, Boyeros, CP 17200, Ciudad de La Habana, Cuba
E-mail: inifat@ceniai.inf.cu
Tel: (53 683) 4039
Fax: (53 683) 2392
45. Meteorology Institute (Instituto de Meteorología (INSMET))
Address: Loma de Casablanca, Regla, AP 17032, CP 11700, Ciudad de La Habana, Cuba
E-mail: meteoro@ceniai.inf.cu
Tel: (53 7) 617500/621051-55
Fax: (53 7) 338010
46. Oceanology Institute (Instituto de Oceanología (IDO))
Address: Calle 1ra. No. 18406 e/184 y 186, Reparto Flores, Playa, Ciudad de La Habana, Cuba
E-mail: oceano@ceniai.inf.cu; costa@oceano.ceniai.inf.cu
Tel: (53 7) 211380/213288/211424
Fax: (53 7) 338212
47. Physical Planning Institute (Instituto de Planificación Física (IPF))
Address: Lamparilla No. 65 entre San Ignacio y Mercaderes, Habana Vieja, Ciudad de La Habana, CP. 10200, Cuba
Fax: (53 7) 619533/335581
48. Soils Institute (Instituto de Suelos)
Address: Carretera Costa-Costa y Antigua Carretera de Vento, Rancho Boyeros, Boyeros, Apdo. Postal 8022, Ciudad de La Habana, Cuba
Tel: (53 7) 443039

49. National Botanical Garden (Jardín Botánico Nacional)
Address: Carretera El Rocío, Km. 3.5, Calabazar, Ciudad de La Habana, Cuba
E-mail: hajb@comuh.uh.cu; hajb@ceniai.inf.cu
Tel: (53 7) 445525
Fax: (53 7) 335350
50. Headquarters, National Corps of Forest Rangers (Jefatura Nacional del Cuerpo de Guardabosques (CGB))
Address: Calle 2 e/25 y 27, Vedado, Ciudad de La Habana, Cuba
Tel: (53 7) 846675/846672/36446
51. Coastal Oceanology Laboratory (Laboratorio Costero de Oceanología)
Address: Casa no. 03, Calle 25 y Playa, Varadero, Matanzas
52. Library of the Ministry of Sugar (Ministerio del Azúcar. Biblioteca)
Address: Calle 23 No. 171 e/N y O, Vedado, CP 10400, Ciudad de La Habana, Cuba
E-mail: agustin@minaz.minaz.tur.cu
Tel: (53 7) 305061 ext. 112, 434, 448
Fax: (53 7) 333193
53. National Museum of Natural History (Museo Nacional de Historia Natural)
Address: Obispo No.61 e/Oficios y Baratillo, Plaza de Armas, Habana Vieja, Ciudad de La Habana, Cuba
E-mail: mnhn@ceniai.inf.cu
Tel: (53 7) 620353/639361/632687
Fax: (53 7) 620353
54. National Office of Mineral Resources (Oficina Nacional de Recursos Minerales (ONRM))
Address: Avenida Salvador Allende, No.666, e/ Oquendo y Soledad, Ciudad de La Habana, CP 10300, Cuba
Tel: (53 7) 799262/781014/7810
Fax: (53 7) 335345
55. Ciénaga de Zapata Science, Technology and Environment Agency (Organo de Ciencia, Tecnología y Medio Ambiente de la Ciénaga de Zapata)
Address: Pálpite, Ciénaga de Zapata, Matanzas, Cuba
Tel: (059) 7119/5539
56. Sancti Spiritus Science, Technology and Environment Agency (Organo de Ciencia, Tecnología y Medio Ambiente – Guamuaya, Sancti Spiritus)
Address: Carretera de Fomento, Km. 13. La Legua, Sancti-Spiritus, Cuba
E-mail: luis@omtope.yayabo.inf.cu
Tel: (042) 40388
57. Guaniguanico Science, Technology and Environment Agency (Organo de Ciencia, Tecnología y Medio Ambiente - Guaniguanico)
Address: San Andrés de Caiguanabo, La Palma, Pinar del Rio, Cuba
Tel: (083) 2731

58. Santiago de Cuba Science, Technology and Environment Agency (Organo de Ciencia, Tecnología y Medio Ambiente - Santiago de Cuba)
Address: Carretera de los Baños, III Frente, Santiago de Cuba, Cuba
Tel: (022) 5-6189/5-6130

59. Nipe-Sagua-Baracoa Science, Technology and Environment Agency (Organo de Ciencia, Tecnología y Medio Ambiente - Nipe-Sagua-Baracoa)
Address: Limonar de Monterruz, El Salvador, Guantánamo, CP 99500, Cuba
E-mail: orgmon@gtmo.inf.cu
Tel.: (53 21) 82119/82142
Fax: (53 21) 8229

60. Havana Metropolitan Park (Parque Metropolitano de La Habana (PMH))
Address: Calle La Polar y Línea del Ferrocarril, Cerro, Ciudad de La Habana, Cuba
E-mail: pmh@ceniai.inf.cu
Tel.: (53 7) 817124
Fax: (53 7) 330049

61. National Zoological Park (Parque Zoológico Nacional (PZN))
Address: Carretera de Varona, Km. 3.5, Capdevila, Boyeros, AP. 8010, CP 10800, Ciudad de La Habana, Cuba
E-mail: pzn@ceniai.inf.cu
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