

Hans-Joachim Ulbrich

**An illustrated bibliography of the Ilhas Selvagens
(compiled 2000-2014)**



A PDF series of the Institutum Canarium
edited by
Hans-Joachim Ulbrich

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Title illustration:
Approaching Selvagem Grande (photo: Rui Cunha / Parque Natural da Madeira).

Hans-Joachim Ulbrich

**An illustrated bibliography of the Ilhas Selvagens
(recorded 2000-2014)**

Replacing the three Selvagens bibliographies in
Almogaren XXXI / 2000, XXXVI / 2005 & 44-45 / 2013-2014



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Keywords: Atlantic, Macaronesia, Portugal, Salvage Islands, bibliography, nature, history

Zitieren Sie bitte diese Publikation folgendermaßen / Please cite this book as follows:
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Ulbrich, Hans-Joachim (2014): An illustrated bibliography of the Ilhas Selvagens (recorded 2000-2014).- Special Publication 1 (Institutum Canarium), Wien, 157 p. PDF
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Introduction

Asking the man in the street about the Salvage Islands will produce a big question mark as a reply. Totally different is the situation in the scientific world, mainly in the fields of ornithology, entomology, geology and environment, where you will find many scholars dealing with this small Portuguese archipelago south of Madeira and north of Tenerife (Canary Islands). But a neutral observer will also notice that there existed before 2000 absolutely no comprehensive literature about human history including ethnology, marine history, archaeology, agriculture, fishery, lime working, collecting of lichens and soda plants, raising goats, hunting birds and rabbits and building walls, huts and terraces using dry stone walling techniques. All these topics were described only in dispersed small articles and text paragraphs (eg. in the *Elucidário Madeirense* 1946/1984). Although geological literature about the Selvagens played a certain role, information on mineralogy and speleology was lacking too. This situation was the reason for the Institutum Canarium (Vienna) – in a Macaronesian sense – to plan its first expedition to the Ilhas Selvagens in 1999.

Up to now there have been ten multi-discipline expeditions to the Ilhas Selvagens since World War II:

- 1953 - First Canarian expedition (prepared by Mariano López Socas, mayor of Haria, Lanzarote) - ship "Graciosoero"
- 1963 - First Portuguese expedition with international members (organized by the Museu Municipal do Funchal, Madeira) - ship "Persistência"
- 1968 - Second Canarian expedition (prepared by T. Bravo, J. Toledo & friends) - ship "Jorge Luis"
- 1972 - Third Canarian expedition (prepared by C. García Cabrera, T. Bravo & friends) - ship "Cornide de Saavedra"
- 1976 - Fourth Canarian expedition (prepared by the Museo Insular de Ciencias Naturales, Tenerife) - ship "Agamenón"
- 1999 - First expedition of the Institutum Canarium (initiation and organization) with international members - ship "Corvette"
- 2007 - Second expedition of the Institutum Canarium with German members and Portuguese scientists
- 2010 - Second Portuguese expedition (organized by EMEPC/M@rBis) - three ships
- 2012 - Third expedition of the Institutum Canarium with German members and Portuguese scientists
- 2013 - Fourth expedition of the Institutum Canarium with German members and Portuguese scientists.

This developing engagement of the Institutum Canarium which resulted in numerous publications about the Selvagens led also to an increased occupation on my side – within my own interests – to examine, compile and document the respective scientific sources. This is also the reason why this Selvagens bibliography was not built up to be complete but to meet certain limited requirements.

The combined listing in this PDF was prepared on the base of the three parts of my Selvagens bibliography in the Almogaren Yearbook of the Institutum Canarium (Ulbrich 2000, 2005, 2014). New are some corrections, mostly regarding page numbers, years and typing errors. Also a few doublettes and redactional question marks were omitted. New too are some citations found after the print of Part III; hence more numbers than the three parts combined. Explanatory additions to the citations are now in English. Please note that the Ilhas Selvagens (Portuguese) are called Islas Salvajes by the Spaniards and Sa(l)vage Islands by the English speakers, etc.

When I started my personal Selvagens bibliography back in 2000 I had to rely mostly on citations in the literature section of articles and books (partly PDFs) and less on dedicated bibliographic online resources; this printed information was – I am sorry to say – not in all cases made carefully, including corrupted and misleading citations. Today the situation has changed dramatically: Many scientific journals, institutions and local libraries see the necessity to offer online archives with exact citations and/or PDFs of older papers. This encouraged me to check my listings again for this combined bibliography of 2014; nevertheless an absolute correctness cannot be guaranteed.

The "faculty" with the most citations here is ornithology besides other topics of nature and environment. In this context an open word to the ornithologists for the middle Atlantic islands: From a neutral point of view one can establish that there is – I dare to say – an overwhelming, if not irritating mass of small articles about every aspect of the bird life on Selvagem Grande. For example: *Calonectris diomedea borealis* must be the most described bird on Selvagem Grande; over 50 articles can be found alone in my list and there are more (see <http://publications.cm-funchal.pt> which I did not consider totally). But why is there not ONE comprehensive book about the birds of the Selvagens – like the one about molluscs – that makes it easier for the scholar/student to be informed or to learn about it? It does not cover the highly interesting aspects of the archipelago when only ornithology is dealt with in this extreme manner (a total of 188 citations in my list). I understand that Selvagem Grande (how about the other islets ?) is a paradise for bird lovers. But the Ilhas Selvagens can offer so much more – the 2010 EMEPC/M@rBis expedition proved that! By the way: Has the fauna and flora of the underground – caves, lava tunnels, lower strata of subsoil and boulders – ever been explored sufficiently? Finally all scientific fields of research should be addressed on such an exceptional group of solitary volcanic islands far out in the eastern Atlantic Ocean.

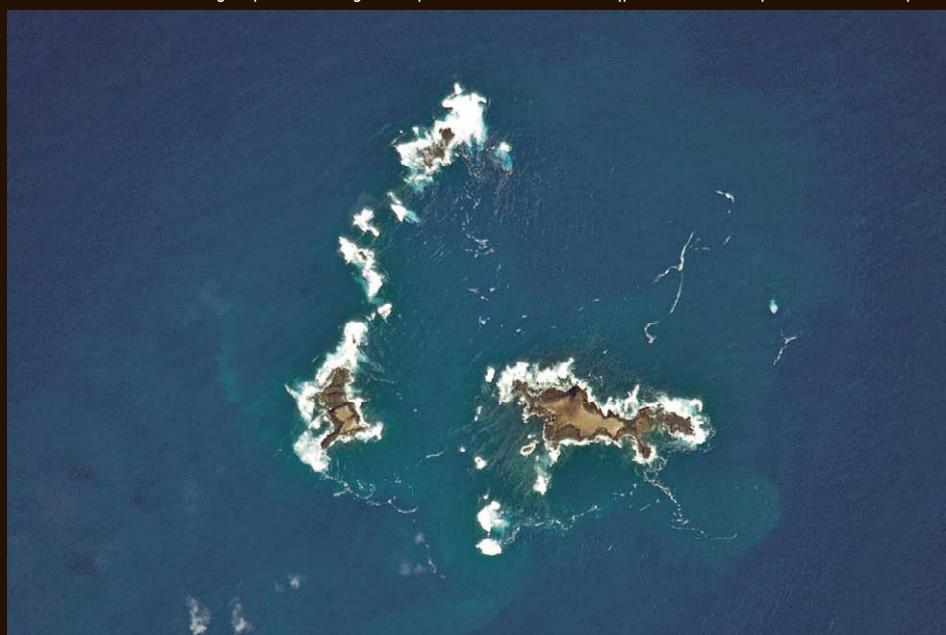
There is also much room for additional research in the human history of the Selvagens (beyond Ulbrich 2000a). How about the respective documents in Madeiran archives, the visits by Portuguese and Spanish sailors on their route to the Canaries or to Western Africa, the efforts by farmers to lay out fields for the cultivation of soda plants, the collecting and processing of dyeing lichens, etc.? ... There is so much to do!

Not mentioned in my listing are some postage-stamps which the Portuguese government dedicated to the Ilhas Selvagens. Encyclopedias all over the world with brief citations of the Selvagens are only listed casually. Maps and charts which show the



1 - The northeastern group with Selvagem Grande (photo: Johnson Space Center/NASA)

2 - The southwestern group with Selvagem Pequena and Ilhéu de Fora (photo: Johnson Space Center/NASA)





3 - The Central Macaronesian Islands with closely related natural profiles, comprising the Canary Islands (Spain), the Madeiran Archipelago (Portugal) and the Selvagens Islands (map: willtron/Wikipedia with completions by HJU).

All these islands have a volcanic origin of different age. Their biodiversity is characterized by many endemic species – limited to the island, to the archipelago or to Macaronesia. The human history of this region – starting over 2000 resp. 5000 years ago – shows similar developments and has many points of contact (e.g. economy, navigation, people, politics).

Eastern Atlantic Ocean

The extension of Selvagem Pequena and Ilhéu de Fora as shown here includes low tide areas.

▲ = Pico do Veadinho (49 m) on Selvagem Pequena.

Palheiro da Terra
Palheiro do Mar

Northeastern Group

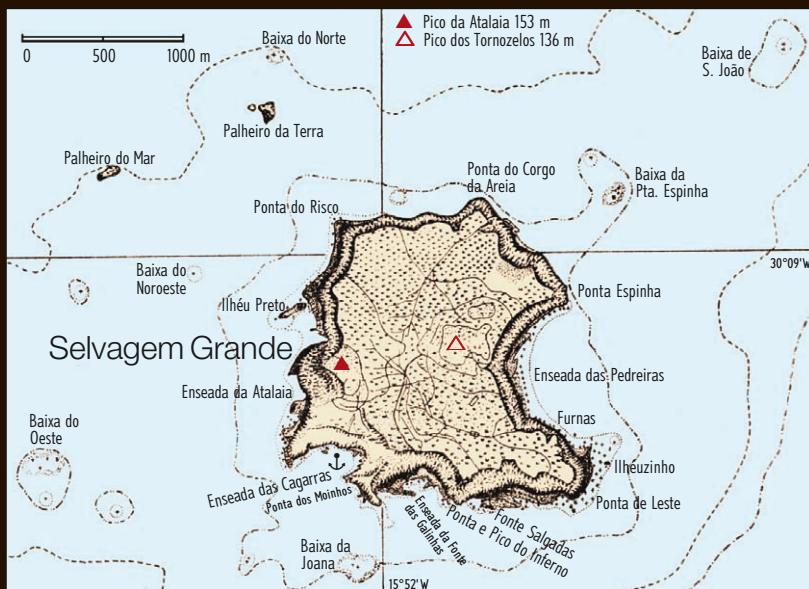


Ilhas Selvagens (Portugal)

5 km



4 - Overview about the Selvagens Islands. The two groups of islands, islets, rocks and riffs have a distance of around 19 km – mid Selvagem Grande to mid Selvagem Pequena (map: H.-J. Ulbrich).



5 - Selvagem Grande and adjacent islets (map: H.-J. Ulbrich on the basis of Folha 156, Direcção de Hidrografia).

Selvagens as small points in the ocean are considered too only accidentally. Some of the older links/URLs may be out-of-date. Nevertheless the texts and illustrations offered then can still be interesting from a historical point of view; many persons have probably downloaded them.

How to use the bibliography

The structure of the listing is self-explanatory. Some additional geographical, historical and methodical informations can be obtained in the prefaces of the preceding three parts. Editorials (scientific societies etc.) of series and their locations can be learned from a list at the end of the bibliography. It is warm-heartedly recommended to use this list because its informations are not included in the citations. By the way: Congress acts or monographs published in several parts as well as daily newspapers are no series in this sense. Publishers of monographs are mentioned within the proper citation. Names of biological species are cursive. And last but not least: Use the internal links!

Abbreviations

? = not clear if the Selvagens are mentioned - or - page number(s) unknown

² (or ³ etc., after year of publication) = second or third etc. edition

c. = century = German "Jahrhundert"

chap. = chapter = German "Kapitel"

D.L. = Depósito Legal (location in Spain where the printing was registered officially)

ed(s). = editor(s) [not "edited"] or compiler(s) = German "Herausgeber" etc.

Ed./Eds. = editorial (publishers) = German "Verlag"

figs. = figures (illustrations) = German "Abbildungen"

h. = hour(s) = German "Stunde(n)"

incl. = including, included = German "einschließlich, inklusive", "enthalten"

mins. = minutes = German "Minuten"

ms. = manuscript = German "Manuskript"

N.S. = New Series / Neue Serie / Nueva Serie etc.

p. (after digit or question-mark) = pages = German "Seiten"

p. (before digit) = [single] page = German "Seite / Einzelseite"

pl. = plates = German "Tafeln"

sep. = separata = German "Separata"

vol./vols. = volume(s) = German "Band / Bände"

ACT = Aula de Cultura del Cabildo Insular de Tenerife (Spain)

CCPC = Centro de la Cultura Popular Canaria (La Laguna, Tenerife, Spain)

CEHA = Centro de Estudos de História do Atlântico (Funchal, Madeira, Portugal)

IAC = Instituto Açoriano de Cultura (Angra do Heroísmo, Portugal)

LNEG = Laboratório Nacional de Energia e Geologia (Lisboa, Portugal)

NRK = Norske Radiokanaler (cooperating with Meteorologisk Institutt, Oslo, Norway)

SEO = Sociedad Española de Ornitología (Madrid, Spain)

SPEA = Sociedade Portuguesa para o Estudo das Aves (Lisboa, Portugal)



6 - The naval vessel NRP "Schultz Xavier" in the harbour of Funchal (photo: Marco Paulo Jarimba / marinetrack.com)



7 - The "Schultz Xavier" on duty to the Ilhas Selvagens (photo: António Coimbra)

The "Schultz Xavier" is one of several ships of the Portuguese Navy who maintain the official connection between Funchal (Madeira) and Selvagem Grande or Selvagem Pequena. It transports normally supplies, park personnel (vigilantes) and invited visitors – mostly scientists.

Searching for certain fields of interest

To make it easier for the reader to find special articles and books I have attached the numbers of the citations to several keywords:

Anthropology (incl. ethnology, folklore, religion, recurring events): 109, 127, 146, 643

Archaeology: 293, 652, 653, 659, 662, 665, 666, 671, 776

Bibliographies: 199, 297, 408, 698, 699, 701, 702, 703, 719

Documentaries (filmed): 37, 164, 627, 778

Ecology & Nature (incl. biodiversity, protection measures, habitat restoring, national park maintenance, exhibitions, guides etc.): 18, 23, 25, 28, 30, 31, 34, 61, 83, 85, 131, 142, 143, 158, 166, 187, 190, 194, 219, 221, 222, 266, 280, 300, 313, 322, 323, 370, 372, 433, 440, 489, 512, 514, 515, 517, 518, 520, 523, 535, 537, 562, 589, 605, 611, 632, 636, 637, 642, 679, 693, 695, 697, 714, 730, 732, 765, 773 [For short descriptions of nature see also Geography.]

Expedition Reports (scientific visits by institutions or private persons): 26, 32, 95, 132, 152, 158, 167, 191, 194, 217, 227, 232, 294, 300, 508, 546, 547, 664, 668, 670, 710, 718

Fauna – non-ornithology (incl. entomology, ichthyology, molluscology etc.): 1, 3, 4, 8, 14, 36, 38, 62, 63, 64, 65, 69, 71, 73, 77, 78, 84, 87, 99, 101, 102, 107, 116, 117, 129, 130, 145, 147, 148, 151, 153, 156, 170, 171, 176, 177, 195, 196, 197, 202, 204, 207, 212, 215, 216, 217, 226, 240, 241, 242, 250, 253, 254, 257, 264, 269, 277, 281, 285, 299, 301, 304, 316, 332, 341, 342, 343, 344, 369, 383, 384, 387, 392, 393, 400, 403, 405, 407, 410, 411, 412, 413, 414, 415, 423, 424, 425, 426, 427, 428, 435, 448, 449, 497, 500, 501, 502, 504, 505, 506, 509, 518, 522, 524, 525, 529, 531, 534, 541, 543, 548, 549, 550, 551, 557, 558, 560, 561, 562, 563, 566, 567, 574, 575, 580, 583, 584, 585, 587, 589, 602, 617, 618, 619, 620, 629, 630, 631, 634, 639, 644, 645, 646, 649, 651, 663, 675, 684, 688, 693, 695, 697, 706, 708, 709, 711, 715, 724, 728, 731, 732, 733, 735, 736, 739, 740, 742, 745, 746, 747, 748, 749, 750, 751, 752, 765, 771, 772, 774, 778

Fauna – ornithology (incl. bird-tracking): 6, 10, 17, 19, 27, 48, 52, 53, 54, 55, 56, 66, 67, 74, 75, 76, 81, 91, 100, 111, 112, 113, 114, 115, 118, 120, 128, 136, 138, 139, 149, 155, 157, 160, 163, 165, 168, 169, 178, 179, 206, 208, 210, 213, 214, 233, 235, 244, 249, 258, 263, 270, 271, 272, 273, 274, 275, 283, 286, 295, 296, 298, 302, 303, 306, 307, 309, 311, 319, 333, 336, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 388, 389, 397, 398, 399, 401, 421, 422, 442, 443, 444, 445, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 499, 507, 511, 513, 516, 519, 521, 532, 544, 568, 569, 570, 571, 572, 581, 588, 590, 591, 592, 593, 607, 608, 609, 610, 612, 614, 624, 625, 641, 648, 654, 655, 656, 682, 683, 694, 705, 712, 734, 740, 744, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770

Geography (incl. general descriptions, climate, tourism, maps, cartography, oceanography, radio amateurs, transport, photovoltaics): 15, 24, 28, 31, 33, 37, 46, 50, 51,

Bibliography

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Geology (incl. mineralogy, speleology, volcanology, fossils etc.): 13, 49, 58, 59, 79, 80, 90, 94, 96, 119, 140, 141, 180, 200, 201, 224, 225, 229, 246, 247, 251, 252, 253, 255, 256, 310, 316, 337, 338, 339, 349, 350, 380, 381, 418, 419, 420, 438, 445, 446, 447, 523, 527, 552, 621, 622, 640, 667, 669, 685, 686, 697, 704, 727, 753, 754, 775, 780

Human History (incl. antiquity, discovery, settlements, economy, non-scientific visits / travel-reports, treasure-hunting, politics, recent history, sports): 7, 11, 12, 15, 18, 20, 21, 22, 33, 34, 35, 47, 50, 51, 66, 68, 95, 108, 109, 110, 121, 123, 125, 126, 127, 133, 135, 137, 142, 150, 161, 162, 191, 218, 219, 223, 227, 228, 231, 243, 245, 265, 268, 276, 284, 290, 293, 312, 318, 377, 378, 379, 382, 396, 406, 431, 433, 440, 492, 494, 510, 526, 536, 538, 557, 594, 603, 613, 615, 616, 625, 638, 640, 652, 653, 658, 660, 661, 662, 666, 670, 671, 677, 686, 689, 696, 697, 716, 717, 720, 721, 722, 723, 743, 769, 774, 776, 779

Literature (novels, poems, literary travel reports): 47, 103, 290, 317, 494, 528

Nautics (incl. navigation, signal fires, GPS, sea-charts, handbooks, regattas): 5, 9, 16, 29, 33, 43, 44, 89, 104, 105, 106, 124, 134, 144, 172, 173, 174, 175, 183, 184, 185, 186, 188, 203, 230, 262, 287, 288, 289, 320, 321, 325, 326, 327, 328, 329, 330, 331, 373, 374, 375, 376, 395, 402, 409, 417, 436, 437, 490, 576, 577, 579, 628, 673, 674, 713, 777, 781

Vegetation terrestrial and marine (incl. vascular plants, lichens, fungi, algae/seaweeds, phytoplankton, mosses, taxonomy): 2, 39, 40, 41, 42, 45, 60, 61, 69, 70, 82, 92, 93, 122, 154, 156, 159, 189, 190, 198, 211, 234, 237, 239, 248, 259, 260, 261, 267, 279, 291, 292, 299, 305, 314, 315, 334, 335, 340, 345, 346, 370, 391, 404, 429, 432, 434, 439, 441, 491, 493, 498, 530, 533, 539, 540, 545, 553, 554, 555, 556, 559, 573, 586, 595, 596, 597, 600, 601, 604, 606, 633, 657, 676, 678, 680, 681, 725, 737, 738

Quick Navigation (QN)

Click on the letter to call up the respective page (mouse pointer will be a hand):

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- X - Y - Z - Last Minute Completions. Click on QN to come back to here.

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8 - *Nicotiana glauca* was an offensive intruder on Selvagem Grande (photo: Peter Schönfelder). Great efforts were made to eradicate this species. Similar measures were taken against rats, mice and rabbits.

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9 - Silhouette of Selvagem Grande (photo: Vitor Reinecke). View NW → SE.

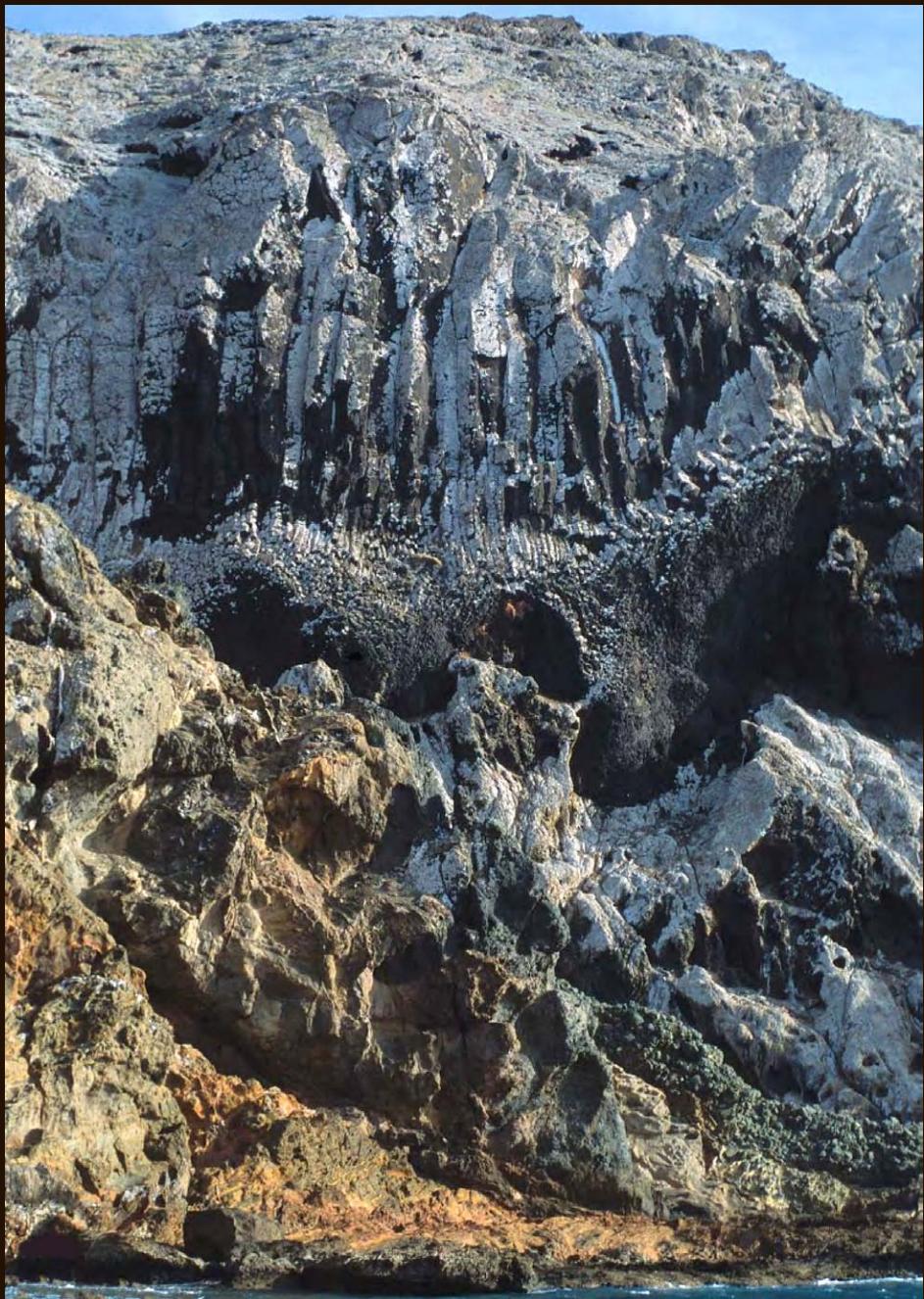


10 - Eastern Selvagem Grande, the Enseada das Pedreiras (photo: Parque Natural da Madeira). View N → S. In the background to the right the Pico do Inferno.



11 - The old cistern in the center of Selvagem Grande (photo: Rui Cunha).

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13 - Phonolith and nepheline strata, here at the northwestern coast of Selvagem Grande (photo: arpels / skyscrapercity.com). View SSE → NNW. By the shore the Ilhéu Preto and in the background the Palheiro da Terra.



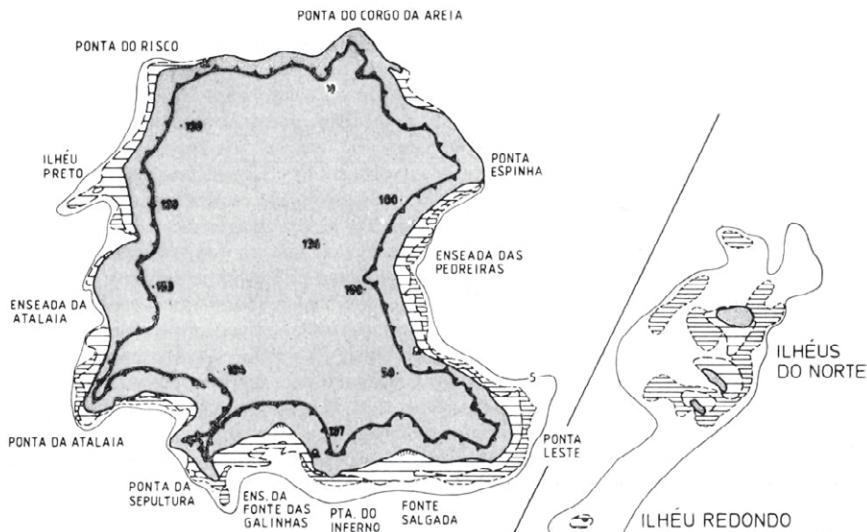
14 - Fractures in the volcanic edifice of Selvagem Grande once filled with lime, producing dikes (photo: Rui Cunha). We can see these today as white bands or even as bright natural walls when erosion was working. See also fig. 82 on p. 83.



15 - Great parts of the coast are characterized by tafonization (photo: worldtraveller55.com).

A

SELVAGEM GRANDE

**B**

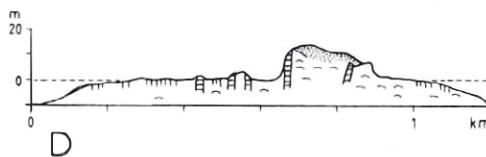
SELVAGEM PEQUENA

**C**

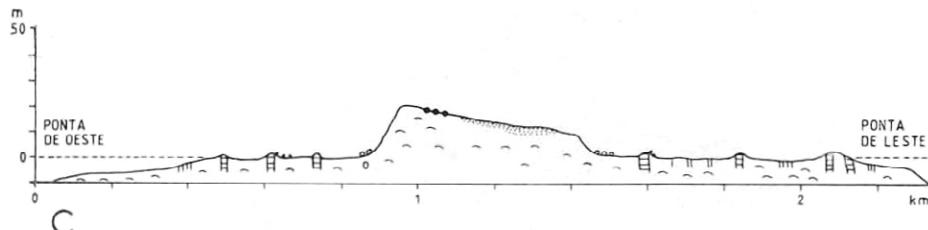
Fig. 2 — Aspectos geomorfológicos do litoral das Ilhas Selvagens. A — Selvagem Grande. B — Selvagem Pequena. C — Ilhéu de Fora. 1 — Topo da arriba. 2 — Linha de costa. 3 — Plataforma de abrasão. 4 — Plataforma submersa com modelado mesolitoral. 5 — Gruta. 6 — Praia de areia, calhau e blocos. 7 — Isobatimétrica (em metros). 8 — Altitude (em metros)

16 & 17 – Both pages:

ILHÉU DE FORA



SELVAGEM PEQUENA



SELVAGEM GRANDE

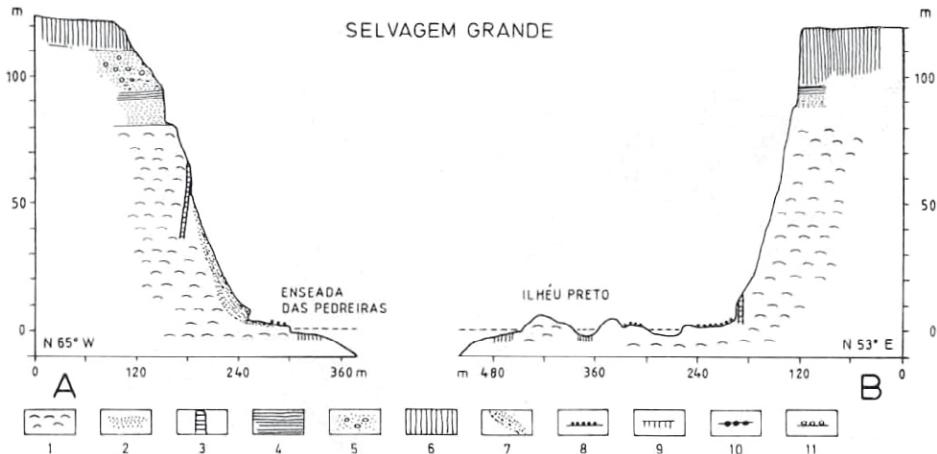


Fig. 3 — Litologia e modelado das arribas e das plataformas de abrasão das Ilhas Selvagem Grande (A e B), Selvagem Pequena (C) e Ilhéu de Fora (D). O perfil C tem orientação de N 70° W e o perfil D, N 25° W. 1 — Complexo fonolítico da base. 2 — Arenito e areias recifais miocénicas. 3 — Dique. 4 — Tufo vulcânico. 5 — Lapilli. 6 — Lava basáltica do Complexo Superior. 7 — Cobertura arenosa. 8 — Conglomerado de praia antiga (18-20 m). 9 — Plataforma com modelado de marmitas e caneiros. 10 — Conglomerado de praia antiga (2-5 m). 11 — Praia de calhau e blocos.

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18 - Cagarras, Cory's shearwater, during sundown on Selvagem Grande (photo: Rui Cunha).



19 - The White-faced Storm-petrel, *Pelagodroma marina hypoleuca*, is endemic to the Madeira-Selvagens region (photo: John Oates). This species is also called "Jesus Christ Bird" because it can be seen walking on water.



20 - Sundown at the Enseada das Cagarras, Selvagens



São Jorge Grande (photo: Pedro Lourenço). View E → W.

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21 - *Aplysia fasciata*

Diving in the waters around Selvagem Grande (photo above: Carlos Manuel Ferreira Freitas; photo below: EMEPC).

22 - *Aglaophenia pluma*



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23 - Hunting rabbits on Selvagem Grande, ca. 1935 (photo: Hugo Ary Rodrigues Leitão).



24 - The Madeiran steamer "Gavião", normally used for excursions to Porto Santo, anchoring in the Enseada das Cagarras (ca. 1935 / photo: Hugo Ary Rodrigues Leitão). Apparently there were organized regular hunting trips to Selvagem Grande.

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25 -Inauguration of a small monument on Selvagem Grande in 2010, commemorating 58 years of the Portuguese Air Force on Madeira respectively in the administrative zone of Madeira (photo: RTP / FAP).



26 -The Portuguese president Aníbal Cavaco Silva on Selvagem Grande during his visit of the Selvagens Islands in 2013 (photo: Miguel A. Lopes / LUSA).

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27 - The only bay where landing is possible is the Enseada das Cagarras (photo: Rui Cunha). This is also the place of the ranger station, the Casa dos Vigilantes (right), and of the small house (left) of the former proprietor of the rights of use, the Madeiran family Zino.



28 - A zigzag path leads from the ranger station to the plateau of Selvagem Grande (photo: arpels / skyscrapercity.com).

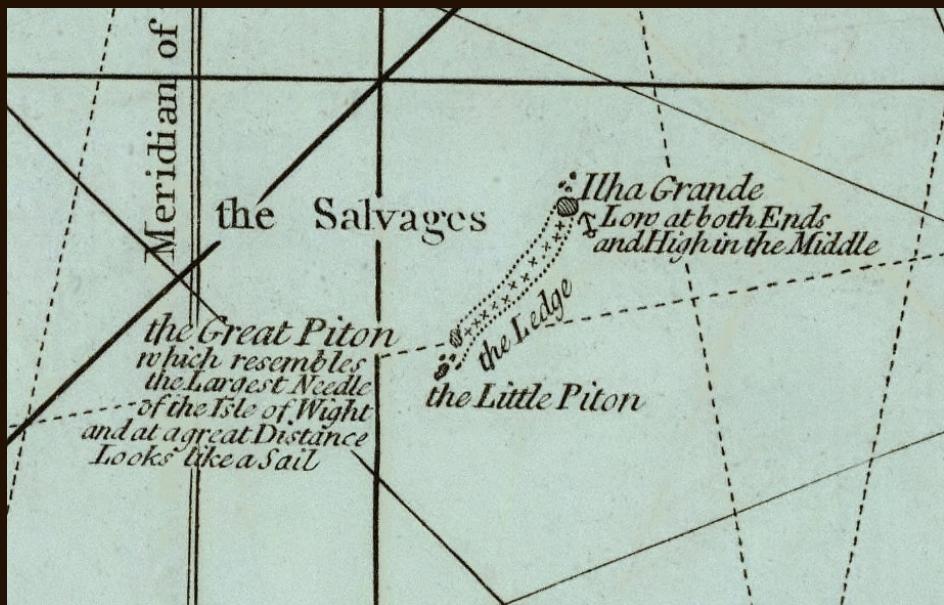
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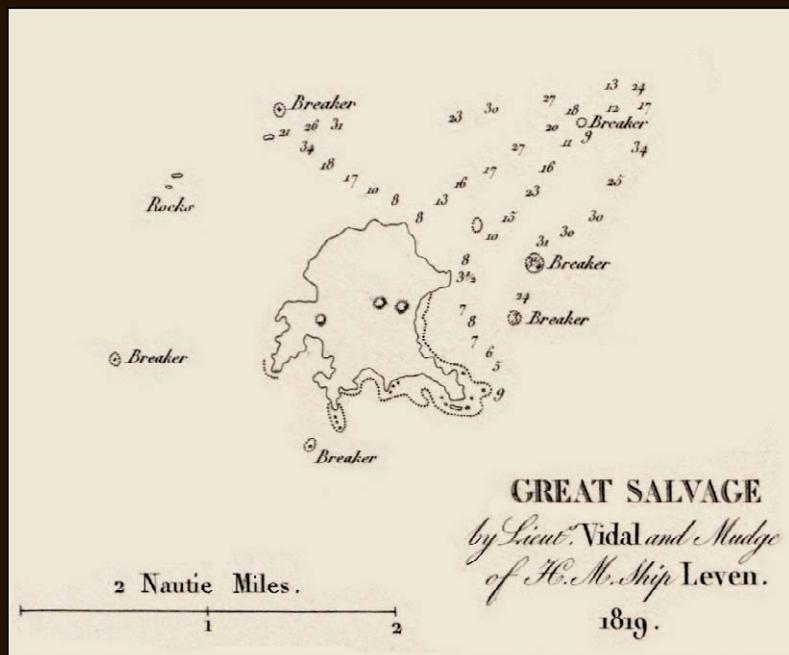
29 - A distrustfully looking Cagarra, *Calonectris diomedea borealis*, at the Enseada da Fonte das Galinhas, Selvagem Grande (photo: Vitor Reinecke).

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30 - A rather inexact representation of the Ilhas Selvagens at the end of the 18th century (British chart of 1794 > # 777 / source: Biblioteca Nacional de España, Madrid). It is interesting that the altitude of Selvagem Pequena is compared with the one of the Isle of Wight.





32 - The Palheiro da Terra, also "Palheiro de Dentro", with Selvagem Grande in the background



and (photo: Luis Filipe Ferreira). View NNW → SSE. The entire archipelago is a nature reserve.

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33 - A dry valley with strong erosion; on the left some distinct tafoni (photo: David Tischler / molimentum.at).



34 - One of the northern capes: the Ponta do Risco (photo: worldtraveller55.com). View NNE → SSW.

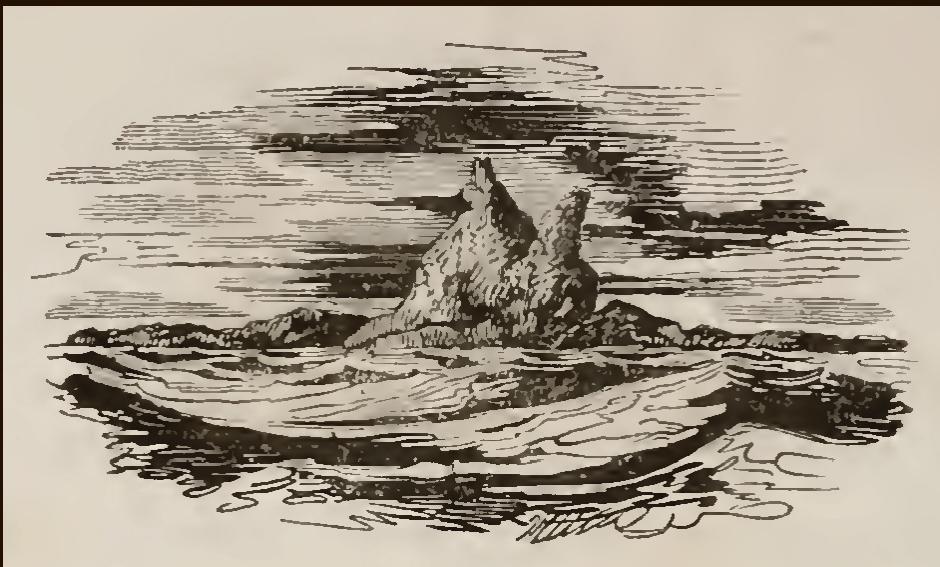
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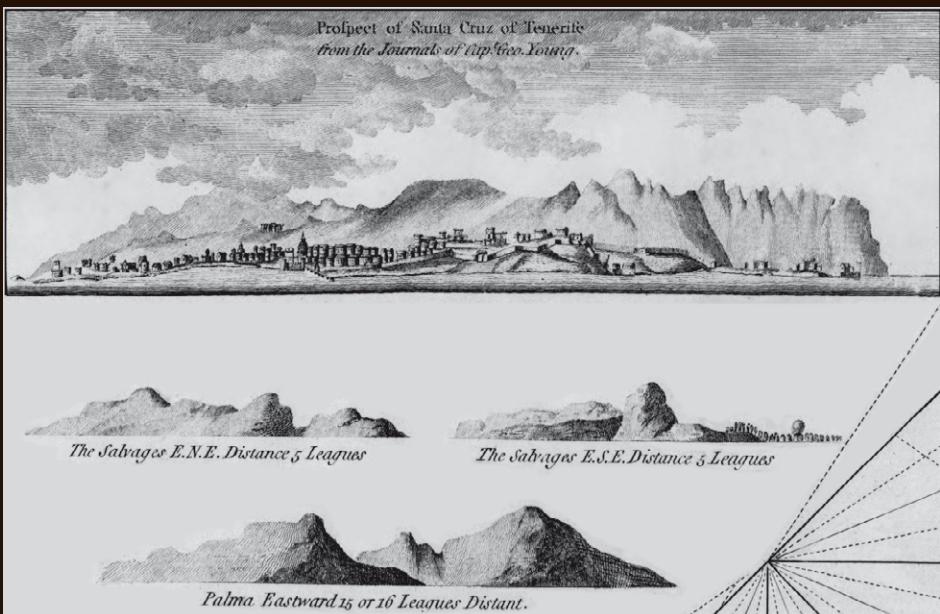
35 & 36 - Myriads of subfossil land snail's shells are covering certain parts of the Selvagem Grande plateau. The area is called "Chão dos Caramujos" (photo above: Rui Cunha / photo below: madeira-web.com).



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37 - The Palheiro da Terra depicted with exaggerated rocks, Selvagem Grande in the background; as seen by the Astrolabe-expedition 1826. See # 191.

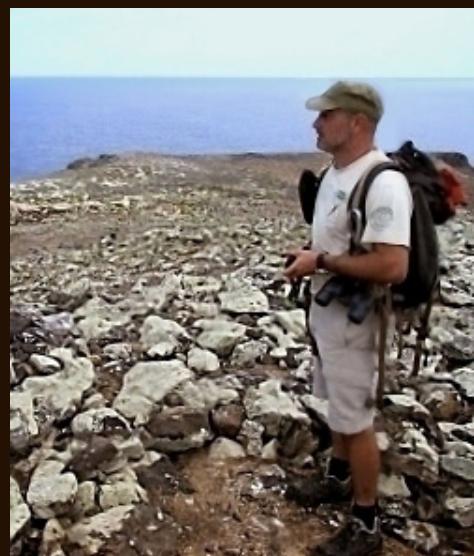


38 - British chart of 1794 > #777 (source: Biblioteca Nacional de España, Madrid): views of Sta. Cruz de Tenerife, the Selvagens and La Palma. Mysterious is the depiction of trees on Selvagem Grande; a solution for this error may deliver Ulbrich 2013: 43 (# 700). Normal for the 18th century is the exaggeration of the altitude of rocks, capes, hills and mountains. One of the profiles seems to show the Palheiro da Terra in the foreground (see also illustration above).

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39 - "Selvagem", the only dog on Selvagem Grande (photo: Pedro Quartin Graça).



40 & 41 - Two of the vigilantes (park rangers):
left Isamberto Silva (photo: Niklas Holmström), right Manuel José Jesus (photo: Sebastian Smith).

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- 50 H.-J. Ulbrich (2014): An illustrated bibliography of the Ilhas Selvagens



42 - The signal-fire of Selvagem Grande, built on top of the Pico da Atalaia (photo: David Tischler / molimentum.at).



43 - An astronomical marker for satellite navigation, here the datum of Selvagem Grande (photo: Hartwig-E. Steiner).

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47 - Dr. Francis Zino, respected ornithologist, who dedicates his life to the research and protection of the birds on Selvagem Grande (photo: Bosse Carlsson).



48 - Old walls cross the plateau of Selvagem Grande (photo: Vitor Reinecke). Their function – especially when not built in connection with a slope – is not clear. Their age can only be estimated: perhaps 16th to 18th century.

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As fronteiras em causa

- Mar Territorial português (até às 12 milhas)
- Zona Económica Exclusiva portuguesa (ZEE, até às 200 milhas)
- Plataforma continental alargada (proposta de Portugal entregue na ONU)
- Prolongamento da ZEE espanhola a partir das Canárias, se as Selvagens fossem rochedos (linha apenas ilustrativa)
- Eventual sobreposição da plataforma continental alargada portuguesa e espanhola (proposta preliminar de Espanha na ONU)



Fonte: EMEPC; PÚBLICO; informação preliminar sobre a plataforma continental de Espanha a oeste das Canárias

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52 - *Suaeda vera*, frequent on Selvagem Grande (photo: Harald / taniwani.de), one of 105 vascular plants of the nature reserve.



53 - Young specimen of *Mesembryanthemum nodiflorum*, one of the soda plants (photo: Cláudia Sobreiro).

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55 - *Tarentola boettgeri bischoffi*, a gecko (photo: Cristóbal Pérez).

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56 & 57 - Exploring the shores of Selvagem Grande during the EMEPC-M@rBis expedition in 2010 (photo above: David Villegas Rios / photo below: Nuno Vasco Rodrigues).





58 - The colorful *Grapsus grapsus adscensionis*, living in the t



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(photo: Román Sánchez Morata / navegar-es-preciso.com).



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63 - Volcanic bombs witness of dramatic times on Selvagem Grande (photo: José Lemos Silva).



64 - Parts of the plateau remind of a stone desert (photo: José Santos).
In the background the volcano Pico dos Tornozelos.

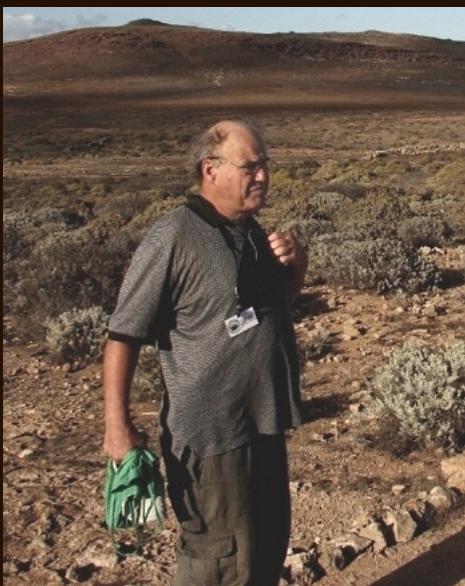
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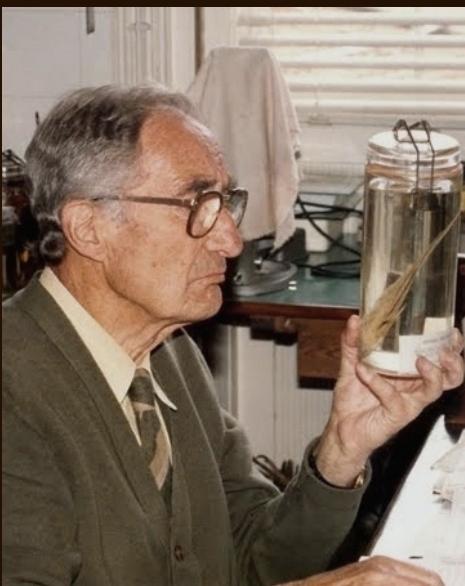
65 - Dr. Paulo Oliveira, director of the Parque Natural da Madeira which administers also the Selvagens Islands (photo: Serviço do Parque Natural da Madeira).



66 - Dr. Manuel Biscoito, director of the Departamento de Ciência da Câmara Municipal do Funchal (photo: Estação de Biologia Marinha do Funchal).



67 - Prof. Dr. Dietrich Putzer, physicist, corresponding member of the Institutum Canarium, Vienna (photo: Thomas Herter). He frequently researches on Selvagem Grande.



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70 - Cagarra 61: for ringing and controlling some birds and nests get a number (photo: Pedro Lourenço).



71 - An Alma-negra – Bulwer's Petrel / *Bulweria bulwerii* – only a few days old (photo: Pedro Lourenço).



72 - *Gymnothorax unicolor* (photo: EMEPC).



73 - *Stenella frontalis* (photo: lobosonda.wordpress.com).



76 - *Kyphosus sectator* (photo: Nuno Vasco Rodrigues).



77 - *Osilinus atratus selvagensis* (photo: Vitor Reinecke).



74 - *Synodus saurus* (photo: Nuno Vasco Rodrigues).



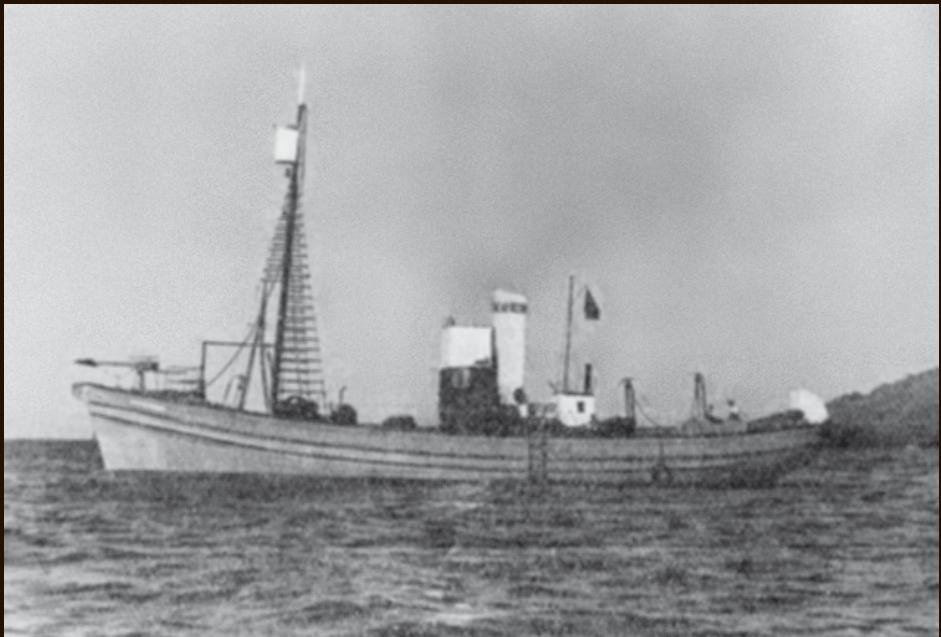
75 - *Muraena augusti* (photo: EMEPC).



78 - *Hermodice carunculata* (photo: Sofia Henriques).



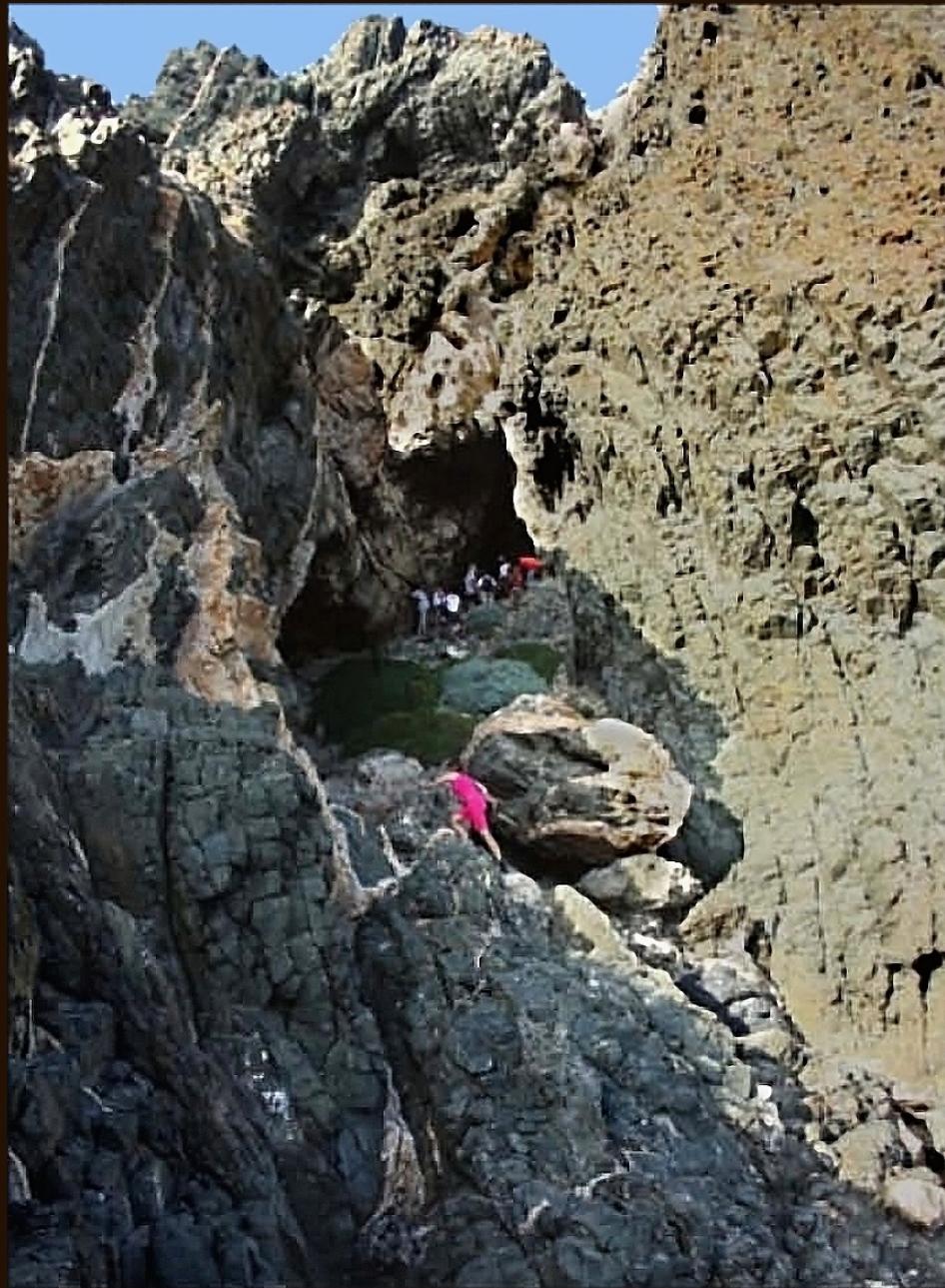
79 - *Physalia physalis* (photo: Luis Filipe Ferreira).



80 - The whaling boat "Persistência" anchoring in the Enseada das Cagarras. It was used for the Portuguese Selvagens expedition of 1963 (photo: Günther E. Maul / see also # 425).



81 - Aboard the expedition ship (left to right): G.E. Maul, P.A. Zino, W. Tams (photo: Francis Zino).



82 - Geologists visit the Gruta do Inferno on Selvagem Grande during the 2010 EMEPC expedition
(photo: Iris Sampaio).



83 - Leaving Selvagem Grande (photo



: Thomas Herter). View SSW → NNE.

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84 - The Ilhéu de Fora and some adjacent rocks during high tide (photo: roteiro9). View NE → SW.
Note the extremely clear water – as everywhere in the Selvagens region.



85 - The eastern part of the Southwestern Group, including Selvagem Pequena (photo: Luis Filipe Ferreira).
View SE → NW.

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86 - Ilhéu Grande (below) and Selvagem Pequena (above) with the Pico do Veadinho (photo: ilhasselvagens.blogspot.de).



87 - Selvagem Pequena (photo: José Santos). View SSE → NNW.

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89 - The western part of Selvagem Pequena as seen from the Pico do Veadinho (photo: Alberto Pita). In the center the small station of the rangers. In the background the Ilhéu de Fora.



90 - Spring on Selvagem Pequena, in the background the volcanic Pico do Veadinho with an altitude of 49 m (Photo: Carlos Manuel Ferreira Freitas).

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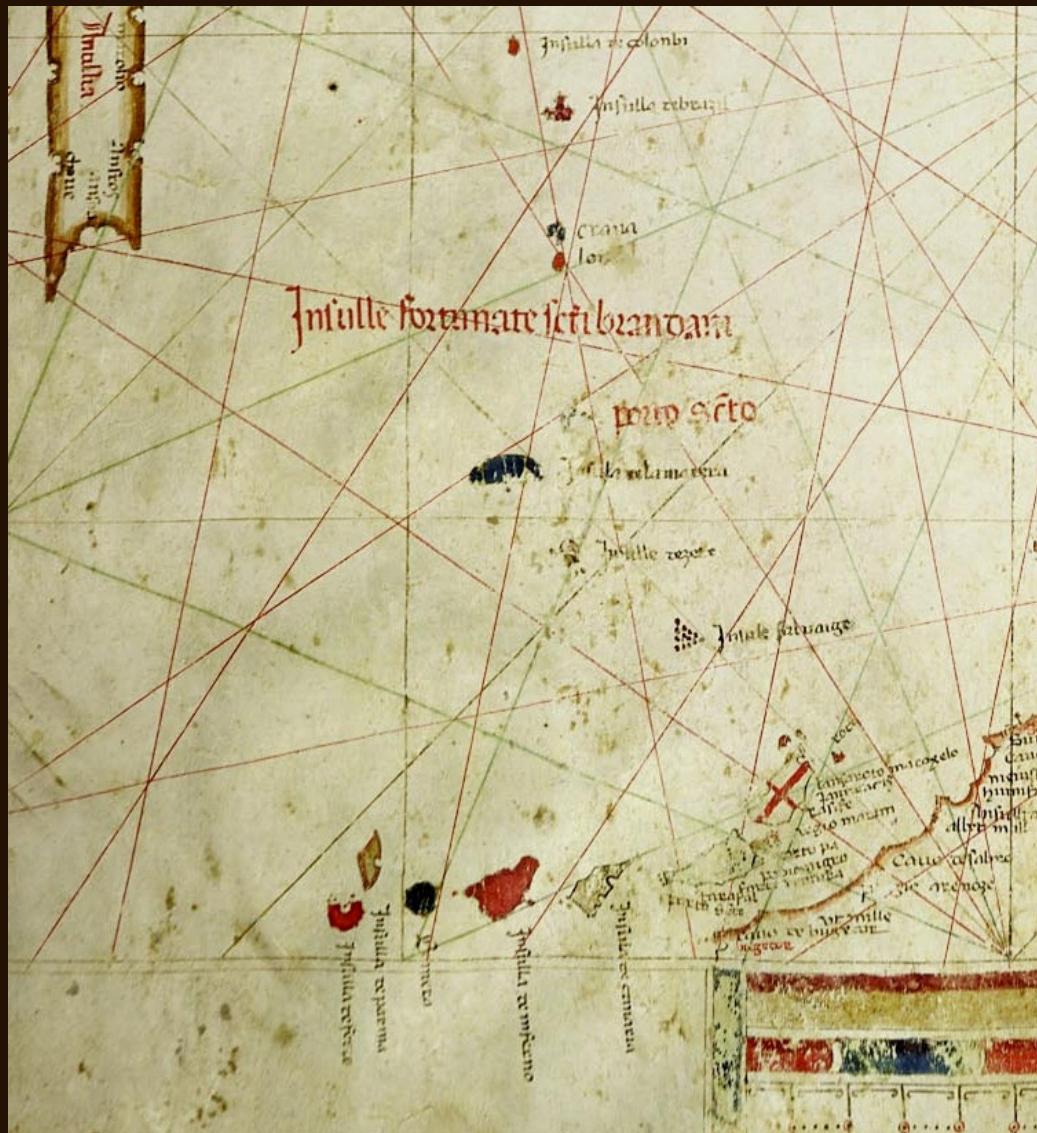
91 - In 1971 the Norwegian oil tanker "Cerno" left its official course to wash its tanks on sea. A storm let the ship strand on the northern shore of Selvagem Pequena where it meanwhile broke apart (photo: Vitor Reinecke). The breakers destroyed it almost completely. Parts of the wreck can be found on the beach. The crew of 41 seamen was rescued by the salvage tug "Oceanic" and brought to Tenerife.



92 - The "Cerno" in better days (photo: Jan Tore Knudsen)

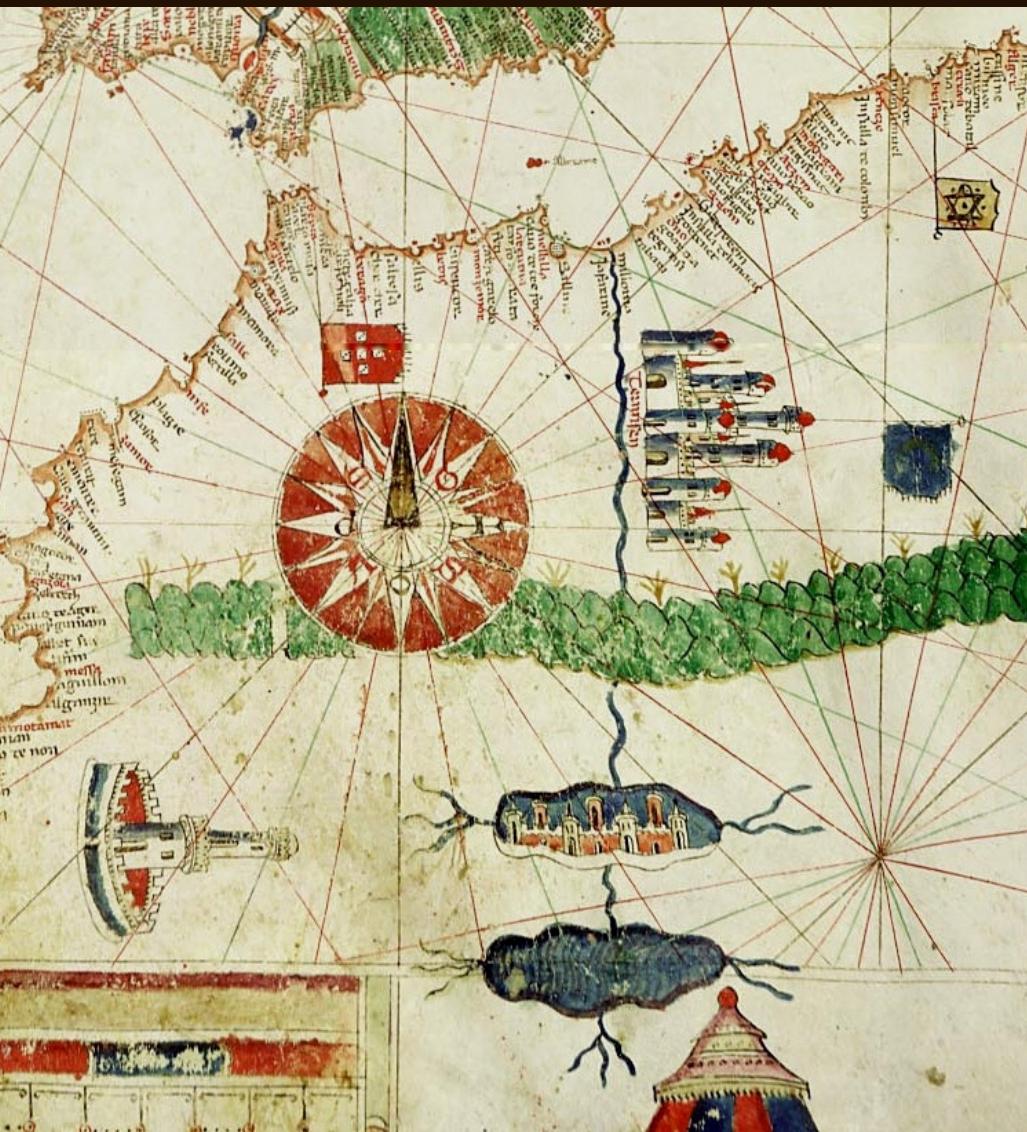


93 - Despite strong rust one can still read the ship's name "Cerno" on the wreck (photo: Pedro Quartin Graça).



94 - This is the southwesternmost part of the portolan chart by Albino de Canepa (Genoa 1489). The complete chart shows "Insulle fortunate scii brandam" by Canepa; comprising the Europe with respective parts of the eastern Atlantic Ocean, the Madeiran Archipelago (incl. Porto Santo and the Ilhas Desertas), Mediterranean Sea, North Africa, Turkey and the Black Sea. The many details reflect the outstanding nautical knowledge of the Genoese and Venetian mariners of the late 15th century, shortly before the expeditions by Columbus took place.

What we could name Central Macaronesian Islands today is called the Ilhas Selvagens and the Canary Islands. While the geographic position of this group is figured pretty well, the position of the Azores – only 1427 occupied by Diogo de Silves for the Portuguese Crown – is more guessing than exact knowing.



The names used by Canepa are as follows: porto scto, Insula de la madera, Insulle dezetr (Desertas), Insule Saluatge, roca (Roque del Este), Iansaroto maroxelo Januensis (Lanzarote), vegio marini (Lobos), forta ventura, Insula de canaria (Gran Canaria), Insulla de inferno (Tenerife), Gomera, insulla de parma (La Palma), Insulla de ferro (El Hierro). Not named are La Graciosa and Alegranza, although contained in the map.

The portolan by Canepa belongs to the category which denotes the Selvagens as "islands" and not simply as "Salvages [etc.]". In the chart they appear as thirteen small points, arranged as a triangle. This demonstrates that the Italian knowledge about this small archipelago between Madeira and Tenerife was rather diffuse at the time.

Scan: James Ford Bell Library, University of Minnesota (USA)

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95 -The Portuguese president Prof. Dr. Aníbal Cavaco Silva entering Selvagem Pequena during his visit of the Selvagens Islands in 2013 (photo: presidencia.pt).



96 -President Cavaco Silva on Selvagem Pequena: Paulo Oliveira, director of the nature reserve, explains to him how to ring a bird (photo: presidencia.pt).

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97 - One can find *Thalassoma pavo* in the waters around Selvagem Pequena (photo: Nuno Vasco Rodrigues).



98 - Also *Bodianus scrofa* (photo: Pedro Gomes / Harmonia).

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99 - Ilhéu Grande, Ilhéu do Sul and Ilhéu Pequeno as seen from southern Selvagem Pequena (photo: Vitor Reinecke).



100 - One of the small beaches on the southern shore of Selvagem Pequena (photo: Vitor Reinecke).

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101 - Ilhéu de Fora or Pitão Pequeno, max. 18m high (photo: Niklas Holmström). View ENE → WSW.



102 - The landing point – "Praia do Desembarcadouro" – of Selvagem Pequena (photo: Vitor Reinecke). View NE → SW. In the background Ilhéu do Sul and Ilhéu Pequeno. In the foreground the ranger station.

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the navy ship N.R.P. "Almirante Gago Coutinho" above (photo: Diogo Alpuim Costa) and the sailing ship N.T.M.
"Creoula" below (photo: EMEPC). Both anchoring here at the shores of Selvagem Pequena.



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(photo: Pedro Gomes / Harmonia)



108 - Another inhabitant of the waters around Selvagem Pequena is *Caulerpa webbiana*, a seaweed or alga
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109 - Swimming waste is reaching the loneliest islands, here Selvagem Pequena (photo: lifeecocompativel.com).



110 - The bow of the "Cerno" wreck during low tide (photo: Cristina Costa e Silva).

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FLORULÆ SALVAGICÆ
TENTAMEN;

OR

A LIST OF PLANTS

COLLECTED IN

THE SALVAGES OR SALVAGE ISLANDS

BY

S^E CONSTANTINO CABRAL DE NORONHA

AND COMMUNICATED BY

THE BARÃO DO CASTELLO DE PAIVA.

BY

E. T. LOWE, M.A.

LONDON:
JOHN VAN VOORST, 1 PATERNOSTER ROW.

MDCCCLXIX.

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116 - One of the long dry-stone walls on the plateau (photo: David Tischler).

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117 - *Anthus bertheloti bertheloti*, common on Selvagem Grande (photo: Ana Almeida).



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118 - A Cory's Shearwater in the sky above Selvagem Pequena (photo: madeirabirds.com).

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122 - *Lobularia intermedia* ssp. = *Lobularia canariensis* ssp., Cruciferae, here on Selvagem Pequena
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123 - Volcanic ejection products on the plateau of Selvagem Grande, allowing only limited agricultural activities
(photo: Vitor Reinecke).



124 - Strong erosion marks the steep coasts of Selvagem Grande (photo: mjdr / pnm.pt). Here a Miocene stratum in the upper half of the declivity of the Enseada das Pedreiras.

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125 - The easternmost part of Selvagem Pequena during low tide (photo: Pedro Quartim Graça).



126 - The Ilhéu Alto north of the Ilhéu de Fora (photo: worldtraveller55.com).

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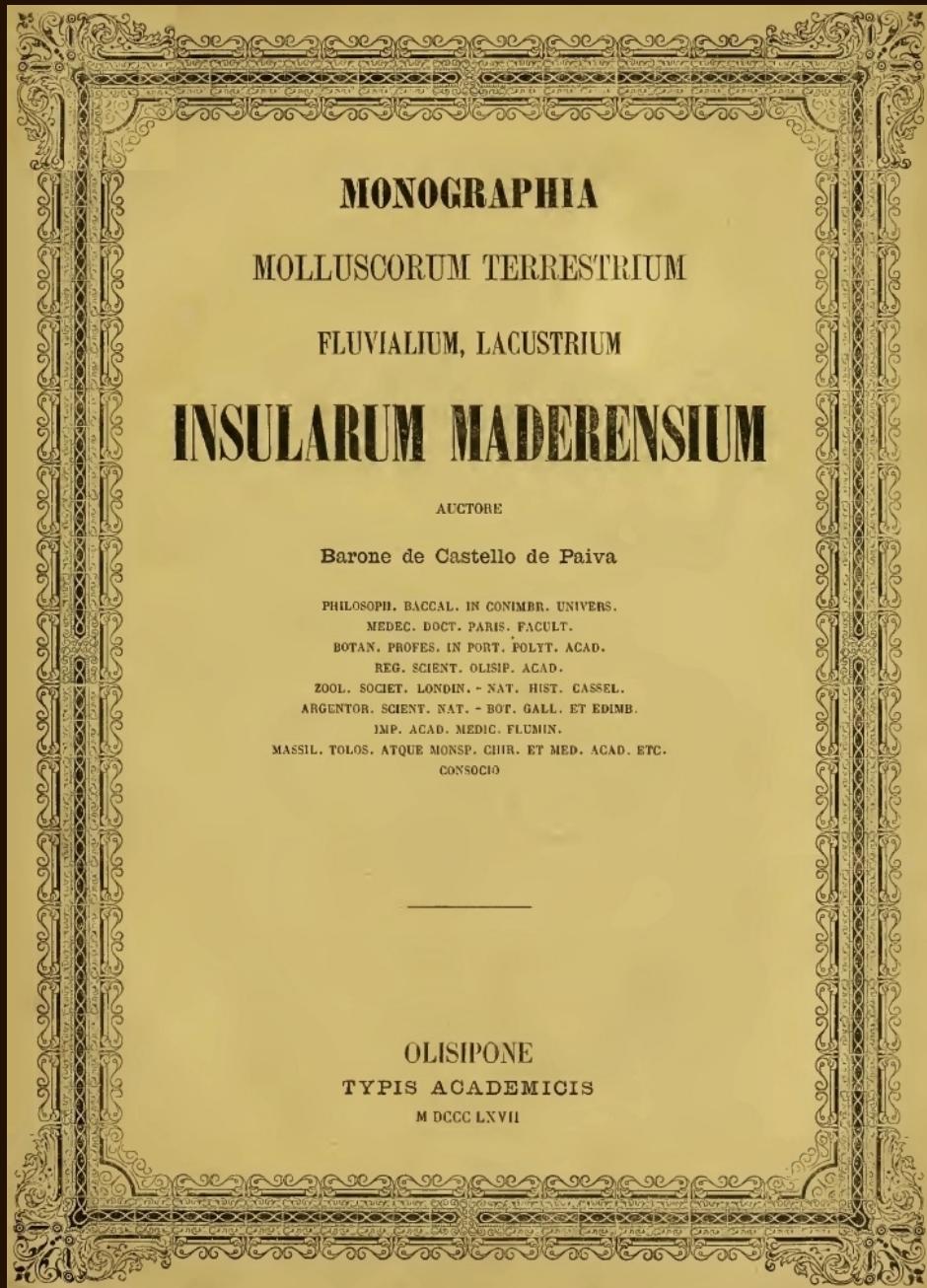
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129 - *Cistanche phelypaea*, a Orobanchaceae, is a parasite who lives on roots of other plants (photo: Hans-Joachim Ulbrich). The dry zones loving wildflower produces no chlorophyll and gets nutrients and water from its host. It reaches a height of up to 40 cm, dependent of the location. This photogenic species can be found within Macaronesia on the Canaries, the Selvagens and on the Cape Verde islands.

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131 & 132 - In the waters around Selvagem Grande: *Scyllarides latus*, above, and *Seriola rivoliana*, below
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133 - Impressive columnar basalt on Selvagem Grande's southern coast; reminding of "Los Organos" on La Gomera, Canary Islands (photo: Pedro Lourenço).



134 - Ilhéu de Fora, in the background, as seen fr



from Selvagem Pequena (photo: Isamberto Silva).

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Zino, P.A.	= Paul Alexander Zino



135 - Lichens of the species *Roccella tinctoria* were once collected on Selvagem Grande as basis for the production of a blue-violet to reddish dye (photo: Norbert Nagel). Among collectors and merchants of the various nationalities this raw material was also known as orseille, orchilla, urzela, litmus plant etc.

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- Ecologit [sic] (Sociedade Portuguesa de Ecologia, Lisboa, Portugal)
- Ecosystems of the World (Elsevier, Amsterdam, Netherlands)
- El Hornero (Revista de Ornitología Neotropical / Aves Argentinas & Asociación Ornitológica del Plata, Buenos Aires, Argentina)
- Elaphe (Deutsche Gesellschaft für Herpetologie und Terrarienkunde, Rheinbach, Germany)
- Emu (Royal Australian Ornithologists Union, Melbourne, Australia)

- Entomologische Blätter (Naturhistorischer Verein der Rheinlande und Westfalens, Krefeld, Germany)
- Environmental Encounters (Council of Europe, Strasbourg, France)
- Eos Magazine [The Ppress, Bruxelles (redaction: Antwerpen), Belgium]
- Estudos, ensaios e documentos (Instituto de Investigação Científica Tropical / Centro de Documentação e Informação, Lisboa, Portugal)
- European Diploma Series (Council of Europe, Strasbourg, France)
- European Journal of Phycology (British Phycological Society / Taylor & Francis, Oxford, UK)
- European Journal of Wildlife Research (Springer, Berlin, Germany)
- Europe's Biodiversity (European Environment Agency, Copenhagen, Denmark)
- FAO Documents Techniques sur les Pêches (United Nations, Roma, Italy)
- Field Studies (Field Studies Council Ltd., Preston Montford/Shropshire, UK)
- Finisterra (Centro de Estudos Geográficos / Universidade de Lisboa, Portugal)
- Folia Canariensis Academiae Scientiarum (Academia Canaria de Ciencias, Sta. Cruz de Tenerife, Spain)
- Gea (Stichting Geologische Activiteiten, Amsterdam, Netherlands)
- Geological Society of America Bulletin (Boulder/Colorado, USA)
- Geologische Rundschau (Ferdinand Enke Verlag, Stuttgart, Germany)
- Hakluyt Society 2nd Series (London, UK)
- Handbuch der Regionalen Geologie (Winter Verlag, Heidelberg, Germany)
- Handbuch der Reptilien und Amphibien Europas (AULA-Verlag, Wiesbaden, Germany)
- Helgoland Marine Research (Springer, Berlin, Germany)
- Herpetology Notes (Societas Europaea Herpetologica, Germany/Italy)
- Hidromar (Instituto Hidrográfico, Lisboa, Portugal)
- História e Linguística Portuguesa (Edições Clássicos Tavera, Lisboa-Madrid)
- Hydrobiologia (Springer, Dordrecht, Netherlands)
- Ibis > The Ibis
- IC-Nachrichten (Institutum Canarium, Wien [also Hallein or Vöcklabruck], Austria)
- Index Seminum quae Horti Acclimatationis Plantarum Arautapae [1958-1984] (Jardín de Aclimatación de la Orotava, Tenerife, Spain)
- Integrative Zoology (International Society of Zoological Sciences & Institute of Zoology/Chinese Academy of Sciences - Wiley Publishing Asia Pty. Ltd.* , *Richmond/Victoria, Australia)
- Islenha (Direcção Regional dos Assuntos Culturais, Funchal, Portugal)
- Italian Journal of Zoology (Unione Zoologica Italiana, Roma, Italy)
- Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten (Hamburg, Germany)
- Jurnal de Sciencias Mathematicas, Physicas e Naturales (Academia Real das Sciencias de Lisboa, Portugal)
- Journal für Ornithologie (now "Journal of Ornithology", Springer, Berlin, Germany)

- Journal of Biogeography (The International Biogeography Society / Wiley-Blackwell Publishing Ltd., Hoboken, New Jersey, USA)
- Journal of Botany (R. Hardwicke, London, UK)
- Journal of Bryology (British Bryological Society / Maney Publishing, Leeds, UK)
- Journal of Entomology (Taylor & Francis. London, UK)
- Journal of Evolutionary Biology (Springer, Berlin, Germany)
- Journal of Molluscan Studies (Oxford University Press, Oxford, UK)
- Journal of the Proceedings of the Linnean Society - Botany (London, UK)
- Journal of Volcanology and Geothermal Research (Elsevier, Amsterdam, Netherlands)
- Journal of Zoology (Wiley Online Library / John Wiley & Sons, Chichester, UK)
- La Conchiglia / The Shell (Evolver Editore, Roma, Italy)
- La Vie des Sciences > Comptes rendus de l'Académie des Sciences de Paris (Série générale)
- Lacerta (Nederlandse Vereniging voor Herpetologie en Terrariumkunde, Badhoevedorp, Netherlands)
- Le Cosmos (Revue Encyclopédique Hebdomadaire des Progrès des Sciences et de leurs Applications aux Arts et l'Industrie, Paris, France)
- Libellula (Gesellschaft deutschsprachiger Odonatologen e.V., Mönchengladbach, Germany)
- L'oiseau et la R.F.O. = L'oiseau et la Revue Française d'Ornithologie (Société Ornithologique de France, Paris)
- Loisirs Nautiques [1968-2009] (Bordeaux, France)
- L'Univers (Firmin Didot Editeur, Paris, France)
- Magazin von merkwürdigen neuen Reisebeschreibungen (Voss Verlag, Berlin, Germany)
- Makaronesia (Boletín de la Asociación Amigos del Museo de Ciencias Naturales de Tenerife, Sta. Cruz de Tenerife, Spain)
- Marine Biology Research [2005-current] (Taylor & Francis, London, UK)
- Marine Ecology Progress (Inter-Research Science Center, Oldendorf, Germany)
- Marine Ornithology (Pacific Seabird Group, Honolulu, USA)
- Materiales Didácticos Universitarios (Universidad de La Laguna, La Laguna, Spain)
- Medieval and Renaissance Texts and Studies (Arizona Center for Medieval and Renaissance Studies, Tempe / Arizona, USA)
- Mémoires (Société de Biogéographie, Paris, France)
- Mémoires de l'Académie Royale des Sciences d'Outre-Mer - Serie Sciences Techniques (J. Duculot S.A., Bruxelles, Belgium)
- Memórias e Estudos do Museu Zoológico da Universidade de Coimbra (Portugal)
- Memórias e Notícias (Museu e Laboratorio Mineralogico e Geologico / Universidade de Coimbra, Coimbra, Portugal)
- Mitteilungen der Geologischen Gesellschaft in Wien (Austria)

- Mitteilungen des Internationalen Entomologischen Vereins (Frankfurt/M., Germany)
- Molecular Ecology (John Wiley & Sons Ltd., Chichester, UK)
- Molecular Ecology Resources (John Wiley & Sons Ltd., Chichester, UK)
- Molecular Phylogenetics and Evolution (Elsevier, Amsterdam, Netherlands)
- Monografias de Herpetología (Asociación Herpetológica Española / Universidad de Granada, Spain)
- Monographiae Biologicae (Dr. W. Junk, 'S Gravenhage, Netherlands)
- Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde (E. Schweizerbart'sche Verlagsbuchhandlung, Stuttgart, Germany)
- Neues Jahrbuch für Mineralogie, Geologie und Paläontologie (E. Schweizerbart'sche Verlagsbuchhandlung, Stuttgart, Germany)
- Nouvelle Geographie Universelle (Librairie Hachette, Paris, France)
- Nova Hedwigia (Schweizerbart Science Publishers, Stuttgart, Germany)
- Opera Botanica Monograph Series (The Botanical Society of Lund, Sweden)
- Origens (Casa da Cultura de Santa Cruz, Funchal, Portugal)
- Oryx (Fauna & Flora International, Cambridge, UK)
- Ostrich (NISC [National Inquiry Services Centre]* / Taylor & Francis, *Grahamstown, South Africa)
- Pardela (Sociedade Portuguesa para o Estudo das Aves, Lisboa, Portugal)
- Parques e Vida Selvagem (Parque Biológico de Gaia, Avintes, Portugal)
- Petermanns Mitteilungen [1931-1937] (Justus Perthes, Gotha, Germany)
- Phycologia (Int. Phycological Society/Allen Press, Lawrence / Kansas, USA)
- Plant Systematics and Evolution (Springer Verlag, Wien, Austria)
- PLOS ONE (Public Library of Science, San Francisco, California / USA)
- Portugaliae Acta Biologica Série B (Instituto Botânico de Faculdade de Ciências, Lisboa, Portugal)
- Proceedings of the National Academy of Sciences of the United States of America (Washington / DC, USA)
- Proceedings of the Royal Physical Society of Edinburgh (Scotland, UK)
- Proceedings of the Royal Society (London, UK)
- Proceedings of the Zoological Society of London (UK)
- Progress in Oceanography (Elsevier, Amsterdam, Netherlands)
- Publicações do Instituto de Zoologia "Dr. Augusto Nobre" (Porto, Portugal)
- Raízes [revista] (Fundação Pró-Memória de São Caetano do Sul, São Paulo, Brazil)
- Reichenbachia (Staatliches Museum für Tierkunde in Dresden, Germany)
- Résultats des campagnes scientifiques accomplies sur son yacht par Albert Ier, Prince Souverain de Monaco (Gouvernement à Monaco, Monaco)
- Revierführer (nautical series by Pietsch Verlag, Stuttgart, Germany)
- Revista da Faculdade de Ciências, 2^a série, C - Ciências Naturais (Universidade de Lisboa, Portugal)

- Revista de Historia (La Laguna, Tenerife, Spain)
- Revista Olhar (Jornal da Madeira, Funchal, Portugal)
- Revista Outdoor (Web Portals Lda., Alfragide / Portugal)
- Revue d'Écologie [La Terre et la Vie] (Société Nationale de Protection de la Nature Paris, France)
- Revue d'Entomologie (Société Française d'Entomologie, Caen, France)
- Ringing and Migration (British Trust for Ornithology, Thetford, UK)
- Roadrunner (quarterly birding magazine by club300.se, Sweden)
- Science et Nature (Muséum National d'Histoire Naturelle, Paris, France)
- Scientia Marina (Institut de Ciències del Mar, Barcelona, Spain)
- Seabird (The Seabird Group, Cromarty & Glasgow, UK)
- Seeman's Journal of Botany > Journal of Botany
- Société Bretonne de Géographie - Bulletin (Lorient, France)
- Sociobiology [until 2012] (California State University, USA)
- Sommerfeltia (Natural History Museum, University of Oslo, Norway)
- Stuttgarter Beiträge zur Naturkunde A-Biologie (Staatliches Museum für Naturkunde, Stuttgart, Germany)
- The Ibis (British Ornithologists' Union, London, UK)
- The Journal of the Linnean Society - Zoology [as of 1897] (London, UK)
- The Oologist's Record (Harrison & Sons, London, UK)
- The Zoologist (Simpkin, Marshall, Hamilton, Kent & Co. Ltd.*, London, UK) *1895
- Tier und Museum (Museum Alexander Koenig, Bonn, Germany)
- Tradiciones Populares (Instituto de Estudios Canarios, Las Palmas de Gran Canaria [for this series - normally La Laguna, Tenerife], Spain)
- Travaux Scientifiques du Musée National d'Histoire Naturelle de Luxembourg (Ministère des Affaires Culturelles, Luxemburg)
- TUB-Dokumentation Kongresse und Tagungen (Technische Universität Berlin, Germany)
- Vesmír [journal] (Vesmír s.r.o., Praha, Czech Republic)
- Viagens Aventuroosas (Carrocel, Lisboa, Portugal)
- Vieraea (Organismo Autónomo de Museos y Centros, Sta. Cruz de Tenerife, Spain)
- Vita Marina (Stichting Biologia Maritima, 'S Gravenhage, Netherlands)
- Voz da Fátima (Jornal do Santuário de Fátima, Portugal)
- Waterbirds (The Waterbird Society, Waco / Texas, USA)
- Wulfenia (Kärntner Botanikzentrum, Klagenfurt, Austria)
- Zeitschrift der Deutschen Geologischen Gesellschaft (Berlin, Germany)
- Zeitschrift für Naturforschung C - Biosciences (Verlag der Zeitschrift für Naturforschung, Tübingen, Germany)
- Zoologische Mededelingen [1915-today] (Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands)
- Zoologische Verhandelingen [1948-2004] (Rijksmuseum van Natuurlijke Historie,

Leiden, Netherlands)

• Zootaxa (Magnolia Press, Auckland, New Zealand)

Many of the older publications are now digitized; and many modern journals are produced digitally for online use from the first.

Helpful Internet links:

- Bibliografía Marina de Canarias - <http://www.oag-fundacion.org/bibliografia/index.php>
- Biblioteca Pública Regional da Madeira - <http://www.bprmadeira.org/site/>
- Institutum Canarium - <http://www.institutum-canarium.org>
- Museu de História Natural do Funchal - <http://publications.cm-funchal.pt>
- Serviço do Parque Natural da Madeira - <http://www.pnm.pt>

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If you find an error of any kind, please contact me:

hjulbrich@institutum-canarium.org



136 - A last glimpse of this wonderful place of unspoiled nature (photo



: Thomas Vollmer/noticias7.eu). The sun's position is in the southeast.

