

## CURRICULUM VITAE JOS PET

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Family name **Pet**  
First names **Johannes Simon (Jos)**  
Date of birth 26-10-1962  
Nationality Netherlands  
Marital status Married  
Mailing address Vila Lumbung no. 6, Jln Raya Petitenget 1000X, Kerobokan, Bali, Indonesia.  
Phone Number +62-(0)361-731105  
Cell Phone +62-(0)8123-810-254  
Email [jspet@pnc-int.com](mailto:jspet@pnc-int.com), [pet.jos@gmail.com](mailto:pet.jos@gmail.com)

Education - 1975-1981: Secondary school, A-level, Leiden, The Netherlands.  
- 1981-1984: Technical University, Delft, The Netherlands.  
- 1984-1989: Agricultural University, Wageningen, The Netherlands.

Degrees - 1983: Propedeuse Mechanical Engineering  
- 1989: M.Sc. (Cum Laude) Fisheries Biology and Fish Culture.  
- 1995: PhD Tropical Fisheries Biology and Management.

Major disciplines - Fisheries Biology and Management  
- Theoretical Production Ecology (system analysis and modelling)  
- Fish Culture

Languages	Read	Write	Speak
- Dutch		(mother tongue)	
- English	Excellent	Excellent	Excellent
- German	Good	Good	Good
- Indonesian	Adequate	Adequate	Good

### Employment and professional experience record

Present Position Technical Advisor and Principal Partner PT. Pet-Norton Consulting International. PNC is an international consulting and project management company, based in Indonesia and incorporated under the laws of Indonesia. PNC provides strategic planning advice; specific recommendations for project implementation; technical and project management services for all stages of the project life cycle: and monitoring and assessment reporting on projects. PNC provides consulting services in the following sectors:

- management of natural resources, primarily forestry and fisheries
- assessment of environmental impacts of projects
- "green tourism" and eco-tourism
- micro-enterprise financing
- public involvement and stakeholder engagement
- media and communications relating to conservation and sustainable development projects
- organizational governance and financial management.

- Indonesia 1999-2007 Program Manager at The Nature Conservancy (TNC) Coral Triangle Center (CTC) since 1999. Working with the Government of Indonesia and other local and international partners on development of programs for marine conservation and sustainable use of marine resources. Contributing to strategic planning and development of annual work plans in TNC Indonesia, responsible for CTC work-plans, budgets, reports and fundraising proposals. Member of the senior management team for the TNC Indonesia Program, working with regional staff on issues like priority setting, eco-regional planning and program evaluation. Responsible for the development of lobby tools such as papers and presentations, enhancing the communication of marine conservation issues at both national and international levels. Contributing to the development of partnerships with scientific institutions, government agencies, NGOs and the private sector.
- Responsible for science-based design and implementation of conservation initiatives at project sites and in communications, training, science, policy and finance programs, in cooperation with program managers, project leaders, park managers and other partners. Coordinating technical support to CTC and partner programs, with emphasis on the Komodo, Wakatobi, Rajah Ampat and Derawan Islands Marine Protected Area Projects. Supporting the leadership of the field projects with the management of program modules including planning & evaluation, enforcement, monitoring, applied research, awareness & education, and community development projects.
- Indonesia, 1995-1999 TNC Fisheries Management Specialist since 1998, Field representative, Program Manager and Program Scientist in 1995/6, 1997 and 1998 respectively. Working with the Directorate General of Forest Protection and Nature Conservation on environmental conservation in Indonesia. Responsible for the design of a management plan for the marine component of Komodo National Park, East Indonesia. Start-up and management of TNC's Komodo Field Office (12 support and counterpart staff) in Flores. Responsible for development and implementation of conservation initiatives (community development, zonation, enforcement, monitoring and research) in cooperation with the park management and other partners. Since 1998 involved in program and project development and evaluation, technical support to field projects and development of partnerships.
- Indonesia, 1995 Fisheries Scientist employed by the Department of Fish Culture and Fisheries, Wageningen Agricultural University, The Netherlands. Stationed in Ujung Pandang, South Sulawesi, Indonesia. Supporting the start-up of a fisheries research project in the Spermonde Archipelago (WOTRO/UNHAS Buginesia Project). Writing of papers for scientific journals, based on results from the NUFFIC/UNIBRAW/LUW Fisheries project in East Java, Indonesia. Support to the design and start-up of a fisheries research project in Ambon and the Lease Islands, Maluku Tengah, Indonesia.
- Sri Lanka, 1991-1993 1991: Ph.D. Researcher (Jr Scientist) employed by the Netherlands Foundation  
The Netherlands, 1994 for the Advancement of Tropical Research. Cooperative project with the Department of Zoology of the Ruhuna University, Matara, Sri Lanka and the Centre for Limnology of the Netherlands Institute of Ecology. Project Title: Niche partitioning of indigenous riverine carps and the exotic lacustrine tilapia (*Oreochromis mossambicus*) in reservoirs in S.E. Sri Lanka. Based at the

Department of Zoology of the Ruhuna University, Matara, Sri Lanka. Responsible for start-up and management of the WOTRO Project on Inland Fisheries. Leader of research team.

1991-1994: Ph.D. Researcher (Jr Scientist) employed by the Department of Fish Culture and Fisheries, Wageningen Agricultural University, The Netherlands. Cooperative project with the Centre for Limnology of the Netherlands Institute of Ecology. Project Title: Biology and management of a mixed gillnet fishery for the exotic lacustrine tilapia, *Oreochromis mossambicus*, and endemic riverine cyprinids in reservoirs in Sri Lanka. Stationed at the Department of Zoology of the Ruhuna University, Matara, Sri Lanka from 1991 to 1993. Leader of research project on inland fisheries biology and management.

- Indonesia, 1989-1990 Junior Scientist employed by Wageningen Agricultural University, based at the Faculty of Fisheries of the Brawijaya University, Malang, Indonesia. Design and implementation of research programs for Fisheries Biology and Fish Culture ('Dynamics in the East Java Purse-seine Fisheries' and 'Fish Poly-culture in Ponds'). Implementation of courses and practical training ('fish population dynamics' and 'fisheries biology and management').
- The Netherlands, 1989 Junior Scientist employed at the Department of Fish Culture and Fisheries, Agricultural University Wageningen. Data analysis for Lake Victoria Project, Tanzania. Development of computer simulation model for gillnet fisheries.
- Indonesia, 1988-1989 Apprenticeship and M.Sc. research at NUFFIC/UNIBRAW/LUW/FISH project, Malang, East Java. Development of a computer simulation model for fish culture in ponds. Stocking density experiment with *Clarias batrachus* in ponds.
- Sweden, 1988 Apprenticeship at Board of Fisheries. Assistant researcher at research vessel and commercial trawlers during fisheries surveys on Baltic Sea, Skaggeak, Kattegat and North Sea. Assistant researcher at marine fisheries laboratory Lysekyl.

## Publications

- Mous, P.J., Pet, J.S. et al., 2009. Effects of natural events, destructive fishing, and management on live coral coverage in Komodo National Park, Indonesia: inferences from long-term monitoring. *In Prep*.
- Dewar, H., Mous, P.J., Domeier, M., Muljadi, A., Pet, J.S., & Whitty, J., 2008. Movements and site fidelity of the giant manta ray (*Manta birostris*) in the Komodo Marine Park Indonesia. *Marine Biology*. DOI 10.1007/s00227-008-0988-x
- Wiadnya, D.G.R., R. Djohani, M.V. Erdmann, A. Halim, M. Knight, P.J. Mous, J. Pet, dan L. Pet-Soede, 2006. Kajian kebijakan pengelolaan perikanan tangkap di Indonesia: menuju pembentukan kawasan perlindungan laut. *Jurnal Penelitian Perikanan Indonesia*, **11**(3): 65-77.
- Pet J.S., Mous P.J., Rhodes K. & Green A. 2006. Introduction to monitoring of spawning aggregations of three grouper species from the Indo-Pacific. A manual for field practitioners. Version 2.0 (January 2006). Publication from The Nature Conservancy Coral Triangle Center, Sanur, Bali, Indonesia. 96 p.
- Mous, P.J., Sadovy, Y.J., Halim, A., & Pet, J.S., 2006. Capture for culture: artificial shelters for grouper collection in SE Asia. *Fish and Fisheries* **7**, 58–72.
- Wiadnya, D.G.R., Mous, P.J., Djohani, R., Erdmann, M.V., Halim, A M. Knight, M., Pet-Soede, C., & Pet, J.S., 2005. Marine capture fisheries policy formulation and the role of marine protected areas as tool for fisheries management in Indonesia. *Marine Research Indonesia* **30**, 33-45.

- Pet, J.S., Sadovy, Y.J., Mous, P.J., Muljadi, A.H. & Squire, L., 2005. Spawning aggregations of groupers (Serranidae) in the Komodo National Park, Indonesia: detection, monitoring and implications for management. *Environmental Biology of Fishes* **74**, 209-218.
- Mous P.J., A. Muljadi, Purwanto & J.S. Pet 2005. Status of coral reefs in & around Komodo National Park. Results of a bi-annual survey over the period 1996 – 2002 (July 2005). The Nature Conservancy Southeast Asia Center for Marine Protected Areas, Sanur, Bali, Indonesia. 57 p.
- Mous, P.J., 1, Pet, J.S., Arifin, Z., Buchary, E., Djohani, R.H., Erdmann, M.V., Halim, A., Knight, M., Pet-Soede, C., & Wiadnya, G.R., 2005. Policy needs to improve marine capture fisheries management and to define a role for marine protected areas in Indonesia. *Fisheries Management and Ecology* **12**, 259-268.
- Fox, H.E., Mous, P.J., Pet, J.S., Muljadi, A.H. & Caldwell, R.L., 2005. Experimental Assessment of Coral Reef Rehabilitation Following Blast Fishing. *Conservation Biology* Volume **19**, No. 1, 98-107.
- Meyer, T., Sudaryanto, Pet, J.S. & Mous, P.J., 2004. Marine finfish culture in Komodo, East Indonesia - building a triple bottom line industry. *INFOFISH International* No. 6, 14-18.
- Meyer, T., Sudaryanto, Mous, P.J., & Pet, J.S., 2004. Sustainable, Profitable and Socially Responsible – Building a ‘Triple Bottom Line’ Grouper and Snapper Culture Industry in Komodo. *Aquaculture Asia* Volume **9**, No. 4, 34-36.
- Mous, P.J., Pet, J.S., D. Gede R., Subijanto, J., Muljadi, A.H. & Djohani, R.H., 2003. How monitoring demonstrated effective control of blast fishing in Komodo National Park. In Wilkinson, C., Green, A., Albany, J. & Dionne, S. (eds.) *Monitoring Coral Reef Marine Protected Areas*. Global Coral Reef Monitoring Network & Australian Institute of Marine Science, Townsville, pp 20-21.
- Fox, H.E., Pet, J.S., Dahuri, R. & Caldwell, R.L., 2003. Recovery in rubble fields: long-term impacts of blast fishing. *Marine Pollution Bulletin* **46**, 1024-1031.
- Kahn B. & Pet, J.S. 2003. Long-term visual and acoustic cetacean surveys in Komodo National Park, Indonesia 1999-2001: Management implications for large migratory marine life. In Beumer, J.P., Grant, A., & Smith, D.C. (eds.) *Aquatic Protected Areas, what works best and how do we know? World Congress on Aquatic Protected Areas 2002*. Australian Society for Fish Biology. Pp 625-673.
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- Kahn, B., James-Kahn, Y. & Pet, J., 2002. Long-term visual and acoustic cetacean surveys in Komodo National Park, Indonesia 1999-2001: Park management implications. Third National Conference on Coastal Zone Management, Bali, Indonesia, May 22-24, 2002.
- Kahn, B and J. S. Pet. 2001. Cetacean surveys and Marine Protected Area management: Komodo National Park & World Heritage Area, Indonesia. In: *Proceedings of the 14th Biennial Conference on the Biology of Marine Mammals, Vancouver, BC, Canada Nov.28 - Dec. 3, 2001*. p 110.
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- Fox, H.E., Dahuri, R., Muljadi, A., Mous, P.J. & Pet, J.S., 2001. Increased coral cover in Komodo National Park, Indonesia: monitoring for management relevance. *Indonesian Journal of Coastal and Marine Resources* **Vol. 3, No. 3**, 26-35.
- Pet-Soede, C., van Densen, W.L.T., Pet, J.S. & Machiels, M.A.M., 2001. Impact of Indonesian coral reef fisheries on fish community structure and the resultant catch composition. *Fisheries Research* **51**, 35-51.
- Mous P.J., Muljadi A. & Pet J.S. 2000. Spatial distribution patterns in resource use by the fishing communities in and around Komodo National Park, a marine protected area in Central Indonesia. Ninth International Coral Reef Symposium, Bali, Indonesia 23-27 October 2000. Abstracts. Published by State Ministry for the Environment Indonesia, Indonesian Institute of Sciences & The International Society for Reef Studies. p. 208, 237

- Mous, P.J., Pet-Soede, C., Erdmann, M., Cesar, H.S.J., Sadovy, Y., & Pet, J.S., 2000. Cyanide fishing on Indonesian coral reefs for the live food fish market – what is the problem? In: H.S.J. Cesar (ed.) *Collected essays on the economics of Coral Reefs*. CORDIO, Dept. of Biology and Environmental Sciences, Kalmar University, Kalmar, Sweden. pp 69-76.
- Pet-Soede, C., Cesar, H.S.J., & Pet, J.S., 2000. Economic Issues related to blast fishing on Indonesian coral reefs. *Indonesian Journal of Coastal and Marine Resources* **Vol. 3, No. 2**, 33-40.
- Kahn, B., James, Y., & Pet, J.S., 2000. Komodo National Park cetacean surveys: a rapid ecological assessment of cetacean diversity, abundance and distribution. *Indonesian Journal of Coastal and Marine Resources* **Vol. 3, No. 2**, 41-59.
- Pet-Soede, C., Cesar, H.S.J., & Pet, J.S., 2000. Blasting away: the economics of blast fishing on Indonesian coral reefs. In: H.S.J. Cesar (ed.) *Collected essays on the economics of Coral Reefs*. CORDIO, Dept. of Biology and Environmental Sciences, Kalmar University, Sweden. pp 77-84.
- Pet, J.S. & Yeager, C. (eds.), 2000. 25 year master plan for management, Komodo National Park, Book 1, Management Plan. Ministry of Forestry, Department of Nature Protection and Conservation, Jakarta, Indonesia. 81 pp. Book 2, Data and Analysis. Ministry of Forestry, Department of Nature Protection and Conservation, Jakarta, Indonesia. 242 pp. Book 3, Site Planning. Ministry of Forestry, Department of Nature Protection and Conservation, Jakarta, Indonesia. 62 pp.
- Pet, J.S., & Squire, L., 2000. Grouper spawning aggregations in Komodo National Park. In: ASIH, AES, HL, SSAR, NIA, CAH. Program Book and Abstracts of the 80th Annual Meeting American Society of Ichthyologists and Herpetologists, hosted by Universidad Autonoma de Baja California Sur, La Paz, B.C.S., Mexico, June 14-20, 2000. p. 291.
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- Mous, P.J., Pet, J.S., & Halim A., 1999. Harvest characteristics of gango, a method to capture fingerling groupers from mangrove areas in West Flores, Indonesia. The Nature Conservancy Indonesia Program Report, Jakarta, 25 pp.
- Piet, G.J., Pet, J.S., Guruge, W.A.H.P., Vijverberg, J. & van Densen, W.L.T., 1999. Resource partitioning along three niche dimensions in a size-structured tropical fish assemblage. *Canadian Journal of Fisheries and Aquatic Sciences* **56**, 1241-1254.
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- Pet, J.S. & Djohani, R.H., 1999. Fishing and biodiversity: the complex tale of the Komodo National Park. *Tambuli, a Publication for Coastal Management Practitioners*, **May**, 10-13.
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- Pet, J.S. & Djohani, R., 1999. Combating destructive fishing practices in Komodo National Park: Ban the hookah compressor! *Indonesian Journal of Coastal and Marine Resources* **Vol. 2, No. 1**, 21-34.
- Fox, H.E., Pet, J.S., Dahuri, R. & Caldwell, R.L., 1999. Enhancing coral recovery after destructive fishing practices in Indonesia. Poster presentation at the International Conference on the Scientific Aspects of Coral Reef Assessment, Monitoring and Restoration; April 14-16, 1999, Ft. Lauderdale, Florida.
- Erdmann, M.V. & Pet, J.S., 1999. Krismon & DFP: some observations on the effect of the Asian financial crisis on destructive fishing practices in Indonesia. *Secretariat of the Pacific Community Live Reef Fish Information Bulletin* **5**, 22-26.
- Pet, J.S. & Pet-Soede, C., 1999. A note on cyanide fishing in Indonesia. *Secretariat of the Pacific Community Live Reef Fish Information Bulletin* **5**, 21-22.

- Djohani, R., Smith, A., Pet, J.S. and Mous, P.J., 1999. Maluku Conservation and Natural Resources Management Project (Maconar). Coastal and Marine Component Preparation Mission. Report prepared for the World Bank. The Nature Conservancy, Indonesia Program, Jakarta.
- Pet, J.S. & Djohani, R., 1998. Combating destructive fishing practices in Komodo National Park: Ban the hookah compressor! *Secretariat of the Pacific Community Live Reef Fish Information Bulletin* **4**, 17-28.
- Sadovy, Y. & Pet, J.S., 1998. Wild collection of juveniles for grouper mariculture: just another capture fishery? *Secretariat of the Pacific Community Live Reef Fish Information Bulletin* **4**, 36-39.
- Pet, J.S., 1997. Destructive fishing methods in and around Komodo National Park. *Secretariat of the Pacific Community Live Reef Fish Information Bulletin* **2**, 20-24.
- Pet, J.S., van Densen, W.L.T., Machiels, M.A.M., Sukkel, M., Setiohady, D. & Tumulyadi, A., 1997. Catch, effort and sampling strategies in the highly variable sardine fisheries around East Java, Indonesia. *Fisheries Research* **31**, 121-137.
- Pet, J.S., van Densen, W.L.T., Machiels, M.A.M., Sukkel, M., Setiohady, D. & Tumulyadi, A., 1997. Length-based analysis of population dynamics and stock identification in the sardine fisheries around East Java, Indonesia. *Fisheries Research* **31**, 107-120.
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- Pet, J.S., Machiels, M.A.M. & Van Densen, W.L.T., 1996. A size-structured simulation model for evaluating management strategies in gillnet fisheries exploiting spatially differentiated populations. *Ecological Modelling* **88**, 195-214.
- Pet, J.S., Gevers, G.J.M., Van Densen, W.L.T. & Vijverberg, J., 1996. Management options for a more complete utilization of the biological fish production in Sri Lankan reservoirs. *Ecology of Freshwater Fish* **5**, 1-14.
- Pet, J.S., 1995. On the management of a tropical reservoir fishery. PhD dissertation, Department of Fish Culture and Fisheries. Wageningen Agricultural University, Wageningen.
- Pet, J.S., Pet-Soede, C. & Van Densen, W.L.T., 1995. Comparison of methods for the estimation of gillnet selectivity to tilapia, cyprinids and other fish species in a Sri Lankan reservoir. *Fisheries Research* **24**, 141-164.
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- Piet, G.J., Pet, J.S. and Guruge, W.A.H.P., 1994. Niche partitioning of indigenous riverine carps and the exotic lacustrine tilapia (*Oreochromis mossambicus*) in a reservoir in S.E. Sri Lanka. *Verh. Internat. Verein. Limnol.* **25**, 2183-2187.
- Pet, J.S. and Piet, G.J., 1993. Distribution patterns of the introduced tilapia *Oreochromis mossambicus* (Peters) and indigenous cyprinids in a Sri Lankan reservoir; consequences for the gillnet fishery. Poster for the annual symposium 'Factors affecting the distribution of fish' of the Fisheries Society of the British Isles, Conwy, Wales, UK, 5-9 July, 1993.
- Pet, J.S. and Piet, G.J., 1993. The consequences of habitat occupation and habitat overlap of the introduced tilapia *Oreochromis mossambicus* (Peters) and indigenous fish species for the fishery management in a Sri Lankan reservoir. *Journal of Fish Biology* (1993) **43** (Supplement A), 193-208.
- Machiels, M.A.M., Pet, J.S., Wudneh, T. & W.L.T. van Densen, 1993. Water level fluctuations of a tropical lake and a reservoir and the consequences for fish stock dynamics. Poster for the 'Conference on predictability and nonlinear modelling in natural sciences and economics', Wageningen University, The Netherlands, April 1993.
- Buijse, A.D., Pet, J.S., van Densen, W.L.T., Machiels, M.A.M. and Rabbinge, R., 1992. A size- and age-structured simulation model for evaluating management strategies in a multi species gill net fishery. *Fisheries Research* **13**, 95-117.

- Pet, J.S. and Damanhuri, 1990. The fishery of Selat Madura, East Java, Indonesia, its management and the fishery statistics. Report of a pilot study for the NUFFIC/UNIBRAW/LUW Fisheries Project. Universitas Brawijaya, Malang, Indonesia.
- Pet, J.S., 1989. Towards a dynamic simulation model for fish culture in ponds under tropical conditions. M.Sc. Thesis. Department of Fish Culture and Fisheries, Wageningen Agricultural University. Wageningen.
- Pet, J.S., 1988. An interactive size- and age-structured simulation model for the gillnet fishery on pikeperch and perch in Lake IJssel. M.Sc. Thesis. Department of Fish Culture and Fisheries and Department of Theoretical Production Ecology, Wageningen Agricultural University. Wageningen.

## Hobbies

### Sport fishing

1987-1988: member of the advisory committee to a sport fishing organization.

1987-1988: member of Advisory Committee on Lake IJssel Fisheries Management.

Experience with game fishing in Europe, North Africa, Mexico, Indonesia, Papua New Guinea, Sri Lanka, Malaysia, Maldives, Vanuatu, Australia and New Zealand.

### Scuba diving

PADI certified Dive Master 1997, PADI certified Rescue Diver 1997.

PADI certified Medic First Aid 1997, PADI certified Advanced Open Water Diver 1997.

PADI certified Open Water Diver 1992.

Experience in Mexico, Indonesia, Papua New Guinea, Pohnpei, Sri Lanka and Maldives.

Over 2000 reef dives between 1988 and 2008, mainly in Indonesia and Maldives.