

CURRICULUM VITAE

Are Pedersen

Name of Firm: Norwegian Institute for Water Research
Are Pedersen
Norwegian
April 21, 1952
Married
Research officer
Research officer/Project leader (p.t. Ph.D. student at UCONN)
Research on ecosystems and pollution effects on these
a) as permanent full time staff member 17 yrs
b) as part time specialist 4 yr

Key qualification:

Marine monitoring/impact assessment studies on benthic communities - hardbottom. impact assessment studies on community, population and individual level in large scale mesocosmos. Marine biodiversity. Nutrient uptake in seaweeds. CMAS Scientific Diver (since 1977) and Professional diver (S-Certified, Norway)

Education:

1998- Graduate Student enrolled in PhD program at Ecology and Evolutionary Biology at University of Connecticut.

- 1991 Workshop on Multivariate Analyses of Benthic Communities
University of Oslo, Norway.
- 1980 Graduate Marine Biologist, Cand. real. (Candiatu realium) (Between a PhD and a Master -equiv.), University of Bergen (NORWAY).
- 1977 Techniques and Methods Used by Diving Marine Biologists. Institute of Marine Biology, University of Bergen (NORWAY).
- 1977-1991 Four Nordic Special Courses in Marine Biology, Institute for Marine Biology, Blomsterdalen, University of Bergen
- 1976-1980
- 1975 Graduated Cand. Mag. (candidatus magisterii) (equals Bachelor of Science), University of Bergen, Norway.
- 1972-1975 University of Bergen, Norway
- 1971 Served one year as MP in Norwegian Army.
- 1970 Prequalifying courses *Examen Philosophicum* (history of philosophy, logic and theory of science) at University of Oslo.

Special Topics of Interest:

1. Community structures in hard bottom benthic communities
2. Long term changes in hard bottom community structures.
3. Littoral/Sublittoral assemblages.
4. Nutrient uptake, production and respiration in seaweeds.
5. Effects of toxic algal blooms.
6. Effects of thermal pollution on benthic algae.
7. Marine fouling on offshore structures.
8. Tropical reefs.
9. Heavy metal uptake and effects of accumulation on seaweeds.
10. Long term effects of oil and drilling mud on benthic hard and soft bottom communities.
11. Leaking of heavy metal and other micro pollutants from contaminated sediments and it availability for organisms.

Related Assignments:

- 2001- Reviewer for The Research Council of Norway.
1998- Enrolled in Ph.D. program at Ecology and Evolutionary Biology (EEB) at University of Connecticut (UCONN) – Research on nutrient uptake and mechanisms as well as production potential of several *Porphyra* spp. in Long Island Sound.
- Part time research officer at NIVA since 1998.
1980- Research officer, Project leader, NIVA.
2001
- 1980- Research assistant University of Bergen/NIVA.
1981
- 1977- Laboratory demonstrator within different courses, University of Bergen.
1980
- 1977- Research assistant at 5 surveys in the Norwegian Sea, North Atlantic and the
1980 Barents Sea working with fishery research. O-group and Capelin - Quota calculations/regulations for the Norwegian / Russian fishing fleet.
- 1977- Project collaborator at the project " Responses of a subtidal sediment
1980 community to

low levels of oil hydrocarbons" Field experiment in enclosure at 8 m depth.
- 1977- Diving assistant at project "The occurrence of pollution hydrocarbons - a field
1980 study

at Sotra outside of Bergen, (West Coast of Norway).
- 1977 Sorting of soft bottom organisms from sediment samples, Ryfylke-project.

Professional Societies:

- 2002 - Student representative in Phycological Society of America,
2000- Norwegian Botanical Association and North Norwegian Botanical Association
1982 – The Association of Norwegian Oceanographers.

Scientific experience from different areas in the world:

Norway, Sri Lanka, Indonesia and Venezuela,

Have fieldtrips to Mediterranean, Australia, Brazil, Virgin Island and Red Sea,

Presentations of scientific work at symposiums like International seaweed symposiums (ISS), International Phycological Symposium (IPS) and European Marine Biology Symposium (EMBS):

ISS- Göteborg, Sweden 1980

EMBS-Brest France 1982

ISS- Qingdao, China 1983

IPS- Copenhagen Denmark 1985

EMBS- Gdansk Poland 1986

ISS- Sao Paulo Brazil 1986

IPS- Melbourne 1988

ISS- Vancouver Canada 1989

ISS- Brest, France 1992

ISS- Valdivia Chile 1995

Supervisor in international projects:

Indonesia : “Indonesian Country Study on integrated Coastal and Marine Biodiversity Management”

Sri Lanka : “Hambantota Integrated Coastal Zone Management Plan”

Publications:

1996

Pedersen A. 1996. Results of 5 years coastal monitoring along the exposed Coastline of southern Norway. *Vann*. 2; 254-267. (In Norwegian)

1995

Hiscock K. 1995 (Ed). Classification of benthic marine biotopes of the northeast Atlantic. Proceedings of a BioMar-Life workshop held in Cambridge. 18-18 November 1994. Peterborough. Joint Nature Conservation Committee.

1990

Bonsdorff E., T. Bakke and A. Pedersen. 1990. Colonization of amphipods and polychaetes to sediments experimentally exposed to oil hydrocarbons. *Marine Pollution Bulletin*, 21, 355-358.

1987

Pedersen A., 1987. Community metabolism on rocky shore assemblages in a mesocosm. A. Fluctuations in production, respiration, Chl.a. content and CN-ratios at grazed and non-grazed assemblages. *Hydrobiologia*. 151/152:267-275.

1986

Pedersen A. & Ø. Wiik, 1986. Algae and Fauna in the shallow waters of Drammenfjorden. *Vann* 3:233-245. (In Norwegian)

Bakke T., Green N. W., Næs K. and A. Pedersen, 1986. Drill Cuttings on the seabed. Phase 1 and 2. Field Experiment on Benthic Recolonization and Chemical Changes in Response to various Types and Amounts of Cuttings. In *Norwegian Petroleum Society. Oil Based Drilling fluids. Cleaning and Environmental Effects of Oil Contaminated Drill Cuttings*. Trondheim. pp:17-33.

Bakke T., Green N. W., Næs K. and A. Pedersen, 1986. Drill Cuttings on the seabed. Phase 3. Field Experiment on Benthic Community Response and Chemical Changes to thin (0.5mm) Layers of Cuttings. In *Norwegian Petroleum Society. Oil Based Drilling Fluids. Cleaning and Environmental Effects of Oil Contaminated Drill Cuttings*. Trondheim. pp:33-43.

1985

Pedersen A., 1985. Effects of diesel oil on the metabolism of newly established rocky shore communities. Abstract to a poster session at the 2nd. International Phycological Congress, Copenhagen. 1985.

1984

Pedersen A., 1984. Studies on phenol content and heavy metal uptake in fucoids. *Hydrobiologia*. 116/117:498-504.

1981

Abrahamsen H. et al. 1979 (1981). Report on the Barents Sea and adjacent waters in August-/September 1979. p 219-226. In H. Tambs-Lyche: *Annale Biologique* 36. Information for the year 1979. *Conseil International pour l'exploration de la mer*.

Cand. Real. – Thesis

Are Pedersen; “Phenolic content in *Ascophyllum nodosum* (L.) Le. Jol. and other brown seaweeds as a function of tissue types, age of tissue and salinity”.

Several aspects are published by Ragan and Glombitza in:

Ragan M.A. & K-W. Glombitza, 1986. Phlorotannins, brown algal Polyphenols. In: *Progress in Phycological Research*. Vol.4. (Round/Chapman,eds.) Biopress Ltd.

Applied Research Reports

2002

Moy, F., J. Aure (HI), E. Dahl (HFF), N. Green, T.M, Johnsen, E.R. Lømsland, J. Magnusson, L. Omli (HFF), E. Oug, A. Pedersen, B. Rygg & M. Walday, 2002. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Ten years of investigations 1990-1999. Norwegian State Pollution Monitoring Programme. Report no. 848/02.TA-1883/2002. NIVA report no. L-3332. 115 pp. Report no. 751/98. TA-1883/2002. NIVA-report no. L-4543/02. 136pp. (In Norwegian)

2001

Moy, F., A. Pedersen, N. W. Green & M. Walday, M., 2001. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 2000. Hard bottom. Norwegian State Pollution

Monitoring Programme. Report no. 818/01. TA-1796/2001. NIVA-report no. L-4355, 37 pp. (In Norwegian)

2000

Moy, F., A. Pedersen, N. W. Green & M. Walday, M., 2000. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1999. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 790/00. TA-1706/2000. NIVA-report no. L-4199, 45 pp. (In Norwegian)

1999

Moy, F., A. Pedersen, N. W. Green & M. Walday, M., 2000. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1998. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 763/99. TA-1637/1999. NIVA-report no. L-4006, 53 pp. (In Norwegian)

1998

Pedersen A., T. Bakke & M. Walday. Gas condensate from the Sleipner platform at Kårstø. Supplementary studies of the marine environment. Annual variations in hard bottom communities. NIVA- report L-3813/98. 85 pp. (In Norwegian)

Pedersen A. & T. Bakke. 1998. Evaluation of extended discharge of cooling water from Kårstø. 10 pp.

Moy, F., E. Dahl (HFF), T.M, Johnsen, J. Magnusson, A. Pedersen, M. Walday, J. Aure (HI), N. Green, E.R. Lømsland, L. Omli (HFF) & B. Rygg, 1998. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1997. Norwegian State Pollution Monitoring Programme. Report no. 751/98. TA-1606/1998. NIVA-report no. L-3972-98. 34 pp. (In Norwegian)

1997

Pedersen A., N. W. Green, F. Moy & M. Walday. 1997. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1996. Norwegian State Pollution Monitoring Programme. Report no. 721/97. TA-1508/1997. NIVA-report no. L-3736-97. 126 pp. (In Norwegian)

Pedersen A., N. W. Green, F. Moy & M. Walday. 1997. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1996. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 689/97. TA-1430/1997. NIVA-report no. L-3642-97. 67 pp. (In Norwegian)

Brattegard, T. and Holthe, T. (editors), 1997; Distribution of marine, benthic macro organisms in Norway. Research Report for DN 1997-1. Directorate for Nature Management. 410 pp. (In English).

1996

Pedersen A & N. W. Green. 1996. Gas condensate from the Sleipner platform at Kårstø. Monitoring of the marine environment – Hard bottoms 1995 - 1996. NIVA-report 3585/96. 165 pp. (In Norwegian).

Pedersen A., J. Aure, E. Dahl, N. W. Green, T. Johnsen, J. Magnusson, F. Moy, A., B. Rygg & M. Walday. 1996. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1996. Norwegian State Pollution Monitoring Programme. Report no. 680a/96. TA-1393/1996. NIVA- report no L-3583/96. 101 pp. (In Norwegian).

Pedersen A., J. Aure, E. Dahl, N. W. Green, T. Johnsen, J. Magnusson, F. Moy, A., B. Rygg & M. Walday. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annex to the annual report of 1996. Norwegian State Pollution Monitoring Programme. Report no.680b/96.TA-1394/1996. NIVA- report no. L-3584/96. 205 pp. (In Norwegian).

Pedersen A., N. W. Green, F. Moy & M. Walday. 1996. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1995. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 644/96. TA-1316/1996. NIVA-report no. L-3447-96. 89 pp. (In Norwegian)

1995

Pedersen A., J. Aure, E. Dahl, N. W. Green, T. Johnsen, J. Magnusson, F. Moy, A., B. Rygg & M. Walday. 1995. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Five years investigations 1990-1994. Main report. Norwegian State Pollution Monitoring Programme. Report no. 624a/95.TA-1264/1995. NIVA report no. L-3332. 115 pp. (In Norwegian).

Pedersen A., J. Aure, E. Dahl, N. W. Green, T. Johnsen, J. Magnusson, F. Moy, A., B. Rygg & M. Walday. 1995. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Five years investigations 1990-1994. Annex report. Norwegian State Pollution Monitoring Programme. Report no. 624b/95.TA-1265/1995. NIVAreport no. L-3333. 269 pp. (In Norwegian)

Green N. W., A. Pedersen, T. Johnsen & T. Jacobsen. 1995. Ranfjorden 1992/93 – Shallow water communities. Norwegian State Pollution Monitoring Programme. Report no. 625/95.TA-1267/1995. NIVA report no L-3337. 123 pp. (In Norwegian)

Pedersen A., N. W. Green, F. Moy & M. Walday. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1994. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 1995 615/95. TA-1233/1995. NIVA-report no. L-3300. 56 pp. (In Norwegian).

1994

Pedersen A., N. W. Green, F. Moy & M. Walday. 1994. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1993. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 554/94. TA-1054/1994. NIVA-report no. L-3072. 86 pp. (In Norwegian).

Pedersen A., N. W. Green, F. Moy & M. Walday. 1994. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1993. Norwegian State Pollution Monitoring Programme.

Report no.560/94. TA-1069/1994. NIVA-report no. L-3071. 69 pp. (In Norwegian).

Pedersen A., N. W. Green, F. Moy & M. Walday. 1994. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1990. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no.555/94. TA-1055/1994. NIVA-report no. L-3024. 121 pp. (In Norwegian).

Holte B., T. Johnsen, J. Molvær, K. Næs, A. Pedersen & M. Walday. 1994. Environmental monitoring in Glomfjord and Holandsfjord i 1991 - 1992. Annex to report no. 3. Nutrients, Algal Biomass, Oxygen content in deep waters and hard bottom communities in Glomfjord. Norwegian State Pollution Monitoring Programme .Report no. 575/94. TA-no.1105/94. NIVA-report no. 3062. 107 pp. (In Norwegian).

Johnsen T., J. Molvær, K. Næs, A. Pedersen & M. Walday. 1994. Environmental monitoring in Glomfjord and Holandsfjord i 1991 - 1992. Report no. 3: Nutrients, Algal Biomass, Oxygen content in deep waters and hard bottom communities in Glomfjord. Norwegian State Pollution Monitoring Programme.Report no. 571/94. TA-no..1101/94. NIVA-report no. 3061. 121 pp.(In Norwegian).

Holte B., T. Johnsen, J. Molvær, K. Næs, A. Pedersen & M. Walday. 1994.Environmental monitoring in Glomfjord and Holandsfjord i 1991 - 1992. Report no. 1: Water chemistry, Biology and sedimentation in Holandsfjord. Norwegian State Pollution Monitoring Programme. Report no.569/94. TA-no.1099/94. NIVA-report no. 3058. 166 pp. (In Norwegian).

Holte B., T. Johnsen, J. Molvær, K. Næs, A. Pedersen & M. Walday. 1994. Environmental monitoring in Glomfjord and Holandsfjord i 1991 - 1992. Annex to report no. 1: Water chemistry, Biology and sedimentation in Holandsfjord. Norwegian State Pollution Monitoring Programme. Report no. 574/94. TA-no.1104/94. NIVA-report no. 3059. 114 pp. (In Norwegian).

Holte B., T. Johnsen, J. Molvær, K. Næs, A. Pedersen & M. Walday. 1994. Environmental monitoring in Glomfjord and Holandsfjord i 1991 – 1992. Summary report. . Norwegian State Pollution Monitoring Programme. Report no. 573/94. TA-no.1103/94. NIVA-report no. 3082. 35 pp. (In Norwegian).

1993

Pedersen A. & L.G. Golmen. 1993. ALUSCAN AS. Marine environmental impact from the discharge water. Report from a survey in October 1993. NIVA report nr. L-2957. 33 pp. (In English).

Aure J., E. Dahl, N. W. Green, J. Magnusson, F. Moy, A. Pedersen, B. Rygg & M. Walday. 1993. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1992. Norwegian State Pollution Monitoring Programme. Report no. 528/93.TA-972/1993. NIVA report no. L-2827. 100 pp. (In Norwegian).

Pedersen A., N. W. Green, F. Moy & M. Walday. 1993. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Data report 1991-1992. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no.515/93. TA-933/1993. NIVA report no. L-2871. 144 pp. (In Norwegian).

Aure J., E. Dahl, N. W. Green, J. Magnusson, F. Moy, A. Pedersen, B. Rygg & M. Walday. 1993. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1991 and Summary report 1990-1991. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 510/93. TA-914/1993. NIVA report no. L-2827. 100 pp. (In Norwegian).

1992

Braathen B., T. M. Johnsen, T. Kållqvist og A. Pedersen., 1992. Biological availability of nutrient supply to the marine environment from: Fish farms, agricultural - and municipal run off. NIVA-report O-89156. 161 pp. (In Norwegian).

Bakke T., L. Golmen, K. Næs and A. Pedersen. 1992. Marine Discharge from the CFAY Plant at Lagoven Refineria de Amuay, Falcon State, Venezuela. An Environmental Impact Assessment Study. NIVA-rapport O-92014. 98pp. (In English).

Bakke T., J.A. Berge, B. Braathen, F. Moy, H. Oen, A. Pedersen & M. Walday., 1992. Combined effects of cooling water and fish farming on marine communities. An large scale mesocosm experiment. NIVA-report no. O-88143, E-89470. L. no. 2743. 201 pp. (In Norwegian).

Magnusson J., T. Bokn, F. Moy, A. Pedersen & G. Larsen., 1992. Monitoring the environmental status of Inner Oslofjord. 1991. Norwegian State Pollution Monitoring Programme. Report no. 483/92. TA. no. 803/92. NIVA-report no. 716091. L. no. 2722. 116 pp. (In Norwegian).

Pedersen A., 1992 Environmental status and effect of existing and planned discharges. Hardbottom. IN: *MTBE-plant at Kårstø. Environmental impact assessment studies; Environment, Natural Resources and Urban Communities. Ed.* Thommasen J. 4-NI-report. ISBN 82-46-0255-7. 183 pp. (In Norwegian).

Pedersen A., M. Walday & E. Oug. 1992. *Chrysochromulina polylepis* – a catastrophe? . Norwegian State Pollution Monitoring Programme. Report no. 475/91. TA-no. 810/1991. NIVA-report no..2702. 32 pp (In Norwegian).

1991

Pedersen A., N. W. Green, F. Moy & M. Walday. 1991. Coastal Monitoring Programme. Long term monitoring of the environmental quality in the coastal regions of Norway. Annual report 1990. Hard bottom. Norwegian State Pollution Monitoring Programme. Report no. 447/91. NIVA-report no. L-2606. 127 pp. (In Norwegian).

Dale S., Golmen L., Holte B., Pedersen A. & K-J. Pettersen ., 1991. Marine Environmental Status of Kilbotn, Stangnes and Harstad harbour, Harstad County 1990-91. Hydrography, Current measuments, soft bottom fauna, hardbottom flora and bacteriology. NIVA-report O-90003. L-2664. 139 pp. (In Norwegian).

1990

Pedersen A., Bakke T. & N. Green., 1990. Biological assessment studies of the marine environment at Kårstø.. Hard bottom organisms 1983-1989. NIVA-report O-88120. L-2441. 152 pp. (In Norwegian).

Pedersen A., Bakke T. & N. Green., 1990. Biological assessment studies of the marine environment at Kårstø.. Summary report 1983-1989. NIVA-report O-88120. L-2440. 41 pp. (In Norwegian).

Hansen J. R., Pedersen A. & N. Green., 1990. Observations in the littoral and sublittoral zone in Troms. General impressions. Part 1. Archipelago from Risøya to Sør-Fulgøya. Tromsø County. Report from the Provincial government of Troms. 39 pp. (In Norwegian).

1989

Pedersen A., Oug E. & N.W. Green. 1989. Blooming of the toxic planktonic algae *Chrysochromulina polylepis*. Regrowth of marine communities along the coast. NIVA's survey in june 1989. Main report. Norwegian State Pollution Monitoring Programme. Report no 403A. NIVA-report O-89113. L- 2395. pp 0-93. (In Norwegian).

Pedersen A., Oug E. & N.W. Green. 1989. Blooming of the toxic planktonic algae *Chrysochromulina polylepis*. Regrowth of marine communities along the coast. NIVA's survey in june 1989. Annex report. Norwegian State Pollution Monitoring Programme. Report no 403B. NIVA-report O-89113. L- 2396. pp 93-230. (In Norwegian).

Pedersen A., 1989. Environmental impact assessment studies in Sunndalsfjorden. Møre and Romsdal. Report 5. Hard bottom communities. Algal vegetation in 1987 and 1988. Norwegian State Pollution Monitoring Programme. Report no. 380/89. O-8000365. 73 pp. (In Norwegian).

Pedersen A., 1989. Petrochemical plant at Kårstø. Grazing by sea urchins in Førlandsfjorden. NIVA-report. O-87152. 14 pp. (In Norwegian).

Pedersen A. Wikander P.B., Oug E. og N.W. Green. 1989. Invasion of the plankton alga *Chrysochromulina polylepis*. Effects on marine hard bottom communities along the coast. NIVA's investigations in November 1988. Norwegian State Pollution Monitoring Programme. Report no. 355/89. O-88188. 182 pp. (In Norwegian).

Skei J., Pedersen A., Bakke T. og J.A. Berge. 1989. Hazardous micro pollutants in Gunnekleivfjorden. Report no. 4. Leakage of Mercury (Hg) and chlorinated hydrocarbons from sediments; bioturbation and biological availability. (Experimental work at Solbergstrand). NIVA-report O-8806804. 114 pp. (In Norwegian).

Rygg B. & A. Pedersen. 1989. Effects of a restoring action plan in Lonet - a polluted pond, Nord-Trøndelag. Report 1. Soft bottom fauna, oxygen and sediments in May 1986, October 1986, May 1987 and November 1987. NIVA-report E-87724. L-2184. 37 pp. (In Norwegian).

1988

Pedersen Are, 1988. Testing of extruded fibre containing antifouling compounds. A short summary of the experiment. Note. 3 pp. (In English).

Pedersen Are, 1988. Marine impact assessment study of Karmsundet, Rogaland. An evaluation of the NIVA-rapport "Preliminary assessment". NIVA-note. O-87218. 22 pp. (In Norwegian).

Bjerknes V., L.G. Golmen, A. Pedersen og K. Sørgaard, 1988. Capacity evaluations for fish farming in Skogsvågen and the vicinity of Toftarøy on Sotra. NIVA-report. O-87055.L.no. 2072. 122 pp. (In Norwegian).

1987

Skei, J., Pedersen, A., Berge J.A., Bakke T. og K. Næs. Inner Sørfjord. The importance of Sediment quality on the heavy metal pollution status. Possibilities and needs for action plans. Phase 2. Quantification of the leakage of heavy metals from polluted sediments. NIVA-report O-87005. L.2065. 101 pp. (In Norwegian).

Pedersen, A. 1987. Evaluation of the combined outlet from Mosjøen Aluminium plant , Mosjøen textile factory and municipal discharges. NIVA-report O-87099. 15 pp. (In Norwegian).

Pedersen, A. 1987. Primary productivity. 16pp. In: Environmental Impact Assesment for the Heidrun Field Development. 464pp. (In English).

Hvoslef S., Kirkerud L., Knutzen J., Kvalvågnæs K., Magnusson J.,Melde M., Næs K., Pedersen A., Rygg B. og Ø. Wiik. 1987. Environmental status in Drammensfjorden 1982-84. Summary report. Norwegian State Pollution Monitoring Programme. Report no. 266/86. NIVA-report 2045,O-8000315. 38 pp. (In Norwegian).

Bakke T., A. Danielsen, U. Eiframsen, T. Klokk, T. Mindrebø, A.Pedersen, D. Vongraven & P.B. Wikander. 1987. Prestudies on some vulnerable location along the coastline in Hordaland in connection with an oil spill in December 1986. Sintef-report. STF 21 A87023. 23 pp. (In Norwegian).

Johannessen K.I. & A. Pedersen, 1987. Marine Growth Data Bank. -Description of the data base and status april 1987. Report from Veritas Offshore Technology and Sevices A/S. No. 87-3190 . 15 pp. (In English).

Pedersen A., Johannessen K. & S.O. Valdersnes, 1987. Pitting Corrosion on Offshore Steel Structures: Marine growth on steel plates with different degree of cathodic protection. Report from Veritas Offshore Technology and Sevices A/S. No. 87-3088 . 26 pp. (In English).

Pedersen A. 1987. Heavy metals in seaweed. Effect of age, phenol content and salinity on the uptake of 6 heavy metals in knotted and bladdered wrack (*Ascophyllum nodosum*, *Fucus vesuculosus*). NIVA-report O-83091. 143 pp. (In Norwegian).

1986

Pedersen A., 1986. Environmental status in Drammensfjorden 1982-84. Report no. 4. Monitoring of marine organisms in shallow waters. Norwegian State Pollution Monitoring Programme. Report no. 218/86. O-8000318. 36 pp. (In Norwegian).

Pedersen A. 1986. Waste spill from land based fish farming in Lonet 1984 and 1985. NIVA-report 80027. 27 pp. (In Norwegian).

Bakke T., Green N., Næs K., Pedersen A., Sporstøl S. & F. Orel, 1986. Drill Cuttings on the Sea Bed. Field experiments on recolonisation and chemical changes. Phase 1. Thick (10mm) layers of cuttings 1982-1983. One year extension 1983-1984. NIVA-report O-82003. 34 pp. (In English).

Rygg B., Arnesen R.T., Bakke T., Bokn T., Green N., Hopen T., Knutzen J., Molvær J., Næs K., Ormerod K., Pedersen A. & K. Sørensen. 1986. Quality criteria for marine areas. Report no. 1. Systems development and suggestions for subprojects. O-85163. NIVA-report 1861, 40 pp. (In English).

1985

Pedersen A. 1985. Community metabolism in fouling assemblages. pp 14-17. In Bakke et al. Long term effects of oil on marine benthic communities in enclosure. Section 1. LITTORAL ROCK COMMUNITY PROJECT. Progress report No.6. NIVA-report O-82007. (In English).

Bakke T., Green N., Næs K., Pedersen A., Sporstøl S. and F. Orel., 1985. Drill cuttings on the seabed. Field experiment on benthic recolonization and chemical changes. PHASE 1. Thick (10 mm) layers of cuttings 1982-1983. NIVA-report O-82003. 202 pp. (In English).

Bakke T., Green N., Kvalvågnæs K., Næs K., Pedersen A., Sahlqvist E.-Ø., Sporstøl S. and F. Orel., 1985. Drill cuttings on the seabed. Field experiment on recolonization and chemical changes. PHASE 3. Thin (0.5mm) layers of cuttings 1984. NIVA-report O-82003. 92 pp. (In English).

1984

- Pedersen A. 1984. Waste spill from land based fish farming in Lonet 1982 and 1983. Hydro chemical investigations in Lonet 1982 og 1983. NIVA-report O-80027. 27 pp. (In English).
- Pedersen A. 1984. Community metabolism. pp (7-1)-(7-15). In Bakke et al. Long term effects of oil on marine benthic communities in enclosure. LITTORAL ROCK COMMUNITY PROJECT. Progress report No. 4. Sub littoral Soft Bottom Progress Report No. 1 1984. NIVA-report O-82007. (In English).
- Magnusson J., Källkvist T., Pedersen A. og K. Tangen., 1984. Monitoring the environmental status of Inner Oslofjord 1982. . Norwegian State Pollution Monitoring Programme. Report no.136/84. NIVA-report O-71160. 75 pp.
- Magnusson J., Kirkerud L., Källkvist T., Nordheim G., Pedersen A. og K. Tangen. 1984. . Monitoring the environmental status of Inner Oslofjord 1983. Norwegian State Pollution Monitoring Programme. Report no. 169/84. NIVA-report O-71160. 111 pp. (In Norwegian).
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