

BIOGRAPHY HIGHLIGHTS

2000 - present date: Ecotoxicology Coordinator, Norwegian Polar Institute, Tromsø, Norway
2005: Research Scholar, Biology Department, Univ. of California, Santa Cruz, USA
2005: Acting Research Director, Norwegian Polar Institute, Tromsø, Norway
2001-02: Acting Research Director, Norwegian Polar Institute, Tromsø, Norway
1999-00: Research Associate, Biology Department, University of California, Santa Cruz, USA
1996-99: Section Head in Biology, The Norwegian Polar Institute, Tromsø, Norway
1994-96: Research Scientist, The Norwegian Polar Institute, Tromsø, Norway
1995: Qualified as a Professor in Comparative Physiology
1994: Dr. philos in Zoophysiology, University of Tromsø, Tromsø
1990-94: Research Scientist, The Norwegian Institute for Nature Research, Tromsø, Norway
1987-90: Research Scientist, The Norwegian Polar Institute, Oslo, Norway
1984-87: Research Assistant, The Norwegian Polar Institute, Oslo, Norway
1983-84: Lecturer, University of Tromsø, Tromsø, Norway
1982-83: Visiting Fellow, Massachusetts Institute of Technology and Massachusetts General Hospital, Boston, Massachusetts, USA
1982: Cand.real in Zoophysiology, University of Tromsø, Tromsø

CURRENT ACTIVITIES/PROJECT INVOLVEMENT

- A) "Contaminants in polar regions" (COPOL)
- B) "Marine ecosystem consequences of climate induced changes in water masses off West-Spitsbergen" (MariClim)
- C) "Biotransformation of halogenated organic (HOCs) and associated biological effects in Arctic seabirds" (Biotrans)
- D) "Winter ecology of Brunnich's and common guillemots"
- E) BEARHEALTH (IPY prosjekt) (Samarbeid med Jon Aars og Hans Wolkers)
- F) BIRDHEALTH (IPY prosjekt) (Samarbeid med NINA, Tromsø)
- G) GAPS (IPY prosjekt) (Samarbeid med Universitetet i Tromsø)
- H) Ismåke (samarbeid med Hallvard Strøm)

STUDENTS SUPERVISED

Graduate students;

Bente Brekke, Tor Solvang, Marianne Fyhn, Inger Alsos, Per Fauchald, Kjetil Sagerup, Espen Henriksen, Marianne Haukås, Anna Sandven, Lisa Bjørnsdatter Knudsen, Kerstin Pusch, Katrine Borgå, Jonathan Verreault, Britt Håker, Anke Krey and Rosa Agudo

Doctoral students;

Espen Henriksen, Katrine Borgå, Francois Criscuolo, Scott Shaffer, Anita Evenset and Jonathan Vereault

STUDENTS BEING SUPERVISED

Graduate students;

Iris Jæger, Jannik Schultner, Nina Seifert and Cecilie Miljeteig

Doctoral students;

Jorg Welckher, Kjetil Sagerup, Lisa Bjørnsdatter Knudsen, Heli Routti and Ingeborg G. Hallanger

PUBLICATIONS (from 2000)

Henriksen, E.O., G.W. Gabrielsen, S. Trudeau, J. Wolkers, K. Sagerup & J.U. Skaare. 2000. Organochlorines and possible biochemical effects in glaucous gulls (*Larus hyperboreus*) from Bjørnøya, the Barents Sea. *Ach. Environ. Contam. Toxicol.* 38(2):234-243.

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Criscuolo, F., G.W. Gabrielsen, J.P. Gendner & Y. Le Maho. 2000. An automatic weighing system application in a study of the Common Eider (*Somateria mollissima*) breeding biology. *Alauda* 68 (1):59-63.

Criscuolo, F., M. Gauthier-Clerc, G.W. Gabrielsen & Y. Le Maho. 2000. Recess behaviour of the incubating Common Eider (*Somateria mollissima*). *Polar Biology* 23:571-574.

Borgå, K., B. Gulliksen, G.W. Gabrielsen & J.U. Skaare. 2000. Size related bioaccumulation and between-year variation of organochlorines in ice-associated amphipods from the Arctic Ocean. *Organohal. Comp.* 49:461-464.

Langseth, I., B. Moe, M. Fyhn, G.W. Gabrielsen & C. Bech. 2000. Flexibility of BMR in an arctic breeding seabird. In: Heldmaier, G., Klaus, S. & M. Klinenspor (eds). *Life in the cold*. Pp. 471-477. Berlin: Springer Verlag.

Savinov, V.M., G.W. Gabrielsen & T. Savinova. 2000. Trace elements in seabirds from the Barents and Norwegian Seas, 1991-1993. *Norsk Polarinstitutt Internrapport* No. 5, 108 pp.

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Gabrielsen, G.W. & E.O. Henriksen. 2001. Persistent organic pollutants in Arctic animals in the Barents Sea area and Svalbard: Levels and Effects. In; *Memoirs of National Institute of Polar Research. Special Issue, No. 54:349-364.*

Borgå, K., G.W. Gabrielsen & J.U. Skaare. 2001. Biomagnification of organochlorines along a Barents Sea food chain. *Environmental Pollution* 113:187-198.

Burkow, I.C., D. Herzke, J. Wolkers & G.W. Gabrielsen. 2001. Analyse av bromerte flamme_hemmere, PCb og pesticider inkludert toksafen i polarmåke (*Larus hyperboreus*) fra Bjørnøya. *Norsk Polarinstitutt Internrapport* No. 6, 14 pp.

Ellis, H.I. & G.W. Gabrielsen. 2002. Energetics of free-ranging seabirds. In: *Marine birds* (Schreiber, E.A. & J. Burger, eds.). CRC Press, Boca Raton, Florida, USA. Chapter 11, pp. 357-405.

Fyhn, M., G.W. Gabrielsen, E.S. Nordøy, B. Moe, I. Langseth & C. Bech. 2001. Individual variation in field metabolic rate of Kittiwakes (*Rissa tridactyla*) during the chick-rearing period. *Physiol. Biochem Zool.* 74:343-355.

Criscuolo, F., M. Gauthier-Clerc, Y. Le Maho & G.W. Gabrielsen. 2001. Brood patch temperature during provocation of incubating eiders (*Somateria mollissima*) in Ny-Ålesund, Svalbard. *Polar Research* 20:115-118.

Criscuolo, F., M. Gauthier-Clerc, Y. LeMaho, T. Zorn & G.W. Gabrielsen. 2001. Sleep changes during long-term fasting in the incubating female common eider *Somateria mollissima*. *Ardea* 89: 441-448.

Henriksen, E. O., Ø. Wiig, J.U. Skaare, G.W. Gabrielsen & A.E. Derocher. 2001. Monitoring PCBs in polar bears: lessons learned from Svalbard. *J. Environ. Monitor.* 3: 493-498.

Hop, H., K. Sagerup, M. Schlabach & G.W. Gabrielsen. 2001. Persistent organic pollutants in marine macro-benthos near urban settlements in Svalbard, Longyearbyen, Pyramiden, Barentsburg and Ny-Ålesund. *Norsk Polarinstitutt Internrapport* No. 8, 43 pp.

Borgå, K., B. Gulliksen, G.W. Gabrielsen. & J.U. Skaare. 2002. Size related bioaccumulation and between year variation of organochlorines in ice-associated amphipods from the Arctic Ocean. *Chemosphere* 46:1383-1392.

Sagerup, K., E.O. Henriksen, J.U. Skaare & G.W. Gabrielsen. 2002. Intraspecific variation in trophic feeding level and organochlorine concentrations in glaucous gulls (*Larus hyperboreus*) from Bjørnøya, the Barents Sea. *Ecotoxicology* 11:119-125.

Borgå, K., M. Poltermann, A. Polder, O. Pavlova, B. Gulliksen, G.W. Gabrielsen & J.U. Skaare. 2002. Influence of diet and sea ice drift on organochlorine

bioaccumulation in Arctic ice-associated amphipods. *Environmental Pollution* 117:47-60.

Criscuolo, F., G.W. Gabrielsen, J.P. Gendner & Y. Le Maho. 2002. Body mass regulation during incubation in female common eiders (*Somateria mollissima*). *J. Avian Biol.* 33:83-88.

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Verreault J., Skaare J.U., Jenssen, B.M. & G.W. Gabrielsen. 2004. Effects of organochlorine pollutants on thyroid hormone levels in Arctic breeding glaucous gulls (*Larus hyperboreus*). *Environmental Health Perspectives* 112:532-537.

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Verreault J, Letcher RJ, Chu S, Muir DCG, Gabrielsen GW. 2004. Determination of new organohalogen contaminants and metabolites in plasma and eggs of glaucous gulls from Bjørnøya. Final report (2003/2004) to the Norwegian Pollution Control Authority (SFT), Oslo, Norway, 2004, 17 pp. (part II)

Verreault, J., Gabrielsen, G.W., Letcher, R.J., Muir, D.D.C. & S. Chu. 2004: New and established organohalogen contaminants and their metabolites in plasma and eggs of glaucous gulls from Bear Island. Report to the Norwegian Pollution Control Authority (SFT), Oslo, Norway. Report number 914/2004, 25 pp.

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Criscuolo, F., Chastel, O., Bertile, F., Gabrielsen, G.W., Le Maho, Y. & T. Raclot. 2005. Corticosterone alone does not trigger a short term behavioural shift in incubating female Common Eiders, but does modify long term reproductive success. *J Avian Biology* 36:306-312.

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Verreault, J., Gabrielsen, G.W., Chu, S., Muir, D.C.G., Andersen, M., Hamaed, A. and R.J. Letcher. 2005. Flame retardant and methoxylated and hydroxylated polybrominated diphenyl ethers in two Norwegian Arctic top predators: Glaucous gulls and Polar bears. *ES & T* 39:6021-6028.

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environmentally contaminated gull eggs. *Journal of Toxicology and Environmental Health, Part A*, 69:159-174

Haukås, M., Kylin, H., Gabrielsen, G.W., Hop, H., Gulliksen, B. and U. Berger. 2006. Perfluoroalkylated substances (PFAS) in an Arctic food web. *Polar Research in Tromsø*, page 4-5.

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Bourgeon, S., Criscuolo, F., Bertile, F., Raclot, T., Le Maho, Y., Gabrielsen, G. and Massemin, S. 2006. Effects of clutch sizes and incubation stage on nest desertion in the female Common Eider *Somateria mollissima* nestin in the high Arctic. *Polar Biology* 29:358-363.

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Verreault, J., Bech, C., Letcher, R.J., Ropstad, E., Dahl, E. & G.W. Gabrielsen. 2006. Organohalogen contamination in breeding glaucous gulls from the Norwegian Arctic: Associations with basal metabolism and circulating thyroid hormones. *Environmental Pollution* (accepted)

Haukås, M., Berger, U., Hop, H., Gulliksen, B. & G.W. Gabrielsen. 2006. Bioaccumulation of perfluoroalkyl substances (PFAS) in selected marine species from the Barents Sea food web (accepted)

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- Knudsen, L.B., Føreid, S., Polder, A., Lie, E., Gabrielsen, G.W., Barrett, R. & J.U. Skåre. 2006. Determination of nona- and deca-brominated diphenylethers in seabird eggs from Northern Norway and Svalbard
- Knudsen, L.B., Braune, B.M., Borgå, K., Jørgensen, E., Primicerio, R., Trudeau, S., Jenssen, B.M., van Bavel, B., Schlabach, M., Verreault, J. & G.W. Gabrielsen. 2006. Biomarker responses to halogenated organic contaminants in northern fulmars (*Fulmarus glacialis*) from Bjørnøya, Norwegian Arctic. (submitted)
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