

PICES Membership (as of October 2021)

Canada

Sean C. Anderson (WG 45)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, V9T 6N7
Canada
E-mail: sean.anderson@dfo-mpo.gc.ca

Natalie Ban (HD)

School of Environmental Studies
University of Victoria
P.O. Box 1700 STN CSC
Victoria, BC, V8W 2Y2
Canada
E-mail: nban@uvic.ca

Douglas F. Bertram (S-MBM)

Environment Canada
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: douglas.bertram@dfo-mpo.gc.ca

**Jennifer L. Boldt (FUTURE SSC, MONITOR, WG 36,
WG 43)**

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Jennifer.Boldt@dfo-mpo.gc.ca

Peter Chandler (TCODE, WG 35)

TCODE Vice-Chair, WG 35 Co-Chair

Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Peter.Chandler@dfo-mpo.gc.ca

Sanae Chiba (SG-UNDOS)

PICES Secretariat
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Sanae.Chiba@pices.int

James Christian (POC, S-CC, WG 40)

Fisheries and Oceans Canada;
Canadian Centre for Climate Modelling and Analysis
c/o University of Victoria,
P.O. Box 3065
Victoria, BC, V8W 3V6
Canada
E-mail: Jim.Christian@canada.ca

Janelle Curtis (BIO, WG 47)

WG 37 Co-Chair

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: janelle.curtis@dfo-mpo.gc.ca

Alexandra C.D. Davis (SG-ECOP)

Biological Sciences
University of Alberta
Edmonton, AB, T6G 2E9
Canada
Email: acdavis@ualberta.ca

Sarah Dudas (WG 41, WG 42)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Sarah.Dudas@dfo-mpo.gc.ca

Cherisse Du Preez (WG 47)

Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: cherisse.dupreez@dfo-mpo.gc.ca

Wiley Evans (S-CC)

Hakai Institute
1713 Hyacinthe Bay Rd.
Heriot Bay, BC, V0P 1H0
Canada
E-mail: wiley.evans@hakai.org

Cameron Freshwater (SG-ECOP)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: cameron.freshwater@dfo-mpo.gc.ca

Membership – 2021

Caihong Fu (WG 40)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Caihong.Fu@dfo-mpo.gc.ca

Nicola Haigh (S-HAB)

Microthalassia Consultants Inc.
3174 Rock City Rd.
Nanaimo, BC, V9T 1T4
Canada
E-mail: nixy@telus.net

Shelee Hamilton (TCODE)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Shelee.Hamilton@dfo-mpo.gc.ca

Charles Hannah (POC, AP-NPCOOS)

Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Charles.Hannah@dfo-mpo.gc.ca

Karen Hunter (HD)

HD Vice-Chair

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: karen.hunter@dfo-mpo.gc.ca

Debby Ianson (WG 46)

Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: iansond@pac.dfo-mpo.gc.ca

Jennifer M. Jackson (POC, SG-UNDOS)

Hakai Institute
100 -1002 Wharf St.
Victoria, BC, V8W 1T4
Canada
E-mail: jennifer.jackson@hakai.org

Brett Johnson (TCODE)

Hakai Institute
314 45389 Chehalis Dr.
Chilliwack, BC, V2R 0T9
Canada
E-mail: brett.johnson@hakai.org

Francis Juanes (WG 43)

Department of Biology
University of Victoria
3800 Finnerty Rd.
Victoria, BC, V8P 5C2
Canada
E-mail: juanes@uvic.ca

S. Kim Juniper (AP-NPCOOS)

AP-NPCOOS Co-Chair

Ocean Networks Canada
University of Victoria
2474 Arbutus Rd.
Victoria, BC, V8N 1V9
Canada
E-mail: kjuniper@uvic.ca

Jackie R. King (FIS, FUTURE SSC, S-CCME)

FIS Vice-Chair

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Jackie.King@dfo-mpo.gc.ca

Anders Knudby (WG47)

Department of Geography, Environment and Geomatics
University of Ottawa
75 Laurier Ave. E
Ottawa, ON, K1N6N5
Canada
E-mail: aknudby@uottawa.ca

Andrea Locke (S-HAB)

Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC
Canada V8L 4B2
E-mail: andrea.locke@dfo-mpo.gc.ca

Lesley Anne MacDougall (F&A)

Fisheries and Oceans Canada
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: lesley.macdougall@dfo-mpo.gc.ca

Gisele Magnusson (WG 41)

Fisheries and Oceans Canada
Government of Canada
200 Kent St.
Ottawa, ON, K1A 0E6
Canada
E-mail: Gisele.Magnusson@dfo-mpo.gc.ca

Ken Morgan (S-MBM)

Canadian Wildlife Service
Environment and Climate Change Canada
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: ken.morgan@dfo-mpo.gc.ca

Joseph Needoba (WG 48)

Ocean Networks Canada
University of Victoria
2474 Arbutus Rd.
Victoria, BC, V8N 1V8
Canada
E-mail: needobaj@uvic.ca

Andrea Niemi (WG 44)

Fisheries and Oceans Canada
Freshwater Institute
501 University Crescent
Winnipeg, MB, R3T 2N6
Canada
E-mail: Andrea.Niemi@dfo-mpo.gc.ca

Tammy Norgard (SG-SciCom)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: tammy.norgard@dfo-mpo.gc.ca

Patrick D. O'Hara (S-MBM)

S-MBM Co-Chair
Canadian Wildlife Service
Environment and Climate Change Canada
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Patrick.OHara@canada.ca

Meghan Paulson (TCODE)

Ocean Networks Canada
University of Victoria
2474 Arbutus Road
Victoria, BC, V8N 1V8
Canada
E-mail: mpaulson@uvic.ca

Angelica Peña (BIO, S-CCME)

Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: angelica.pena@dfo-mpo.gc.ca

Jennifer F. Provencher (WG 42)

Environment and Climate Change Canada
National Wildlife Research Centre
c/o Carleton University
1125 Colonel By Drive
Ottawa, ON, K1A 0H3
Canada
E-mail: jennifer.provencher@canada.ca

Chris Rooper (FIS, WG 43)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Road
Nanaimo, BC, V9T 6N7
Canada
E-mail: chris.rooper@dfo-mpo.gc.ca

Peter S. Ross (MEQ, WG 42)

Coastal Ocean Research Institute
Pacific Science Enterprise Centre
4160 Marine Dr.
West Vancouver, BC, V7V 1H2
Canada
E-mail: peterross1741@gmail.com

Andrew RS Ross (MEQ, S-HAB)

MEQ Vice-Chair
Fisheries and Oceans Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Andrew.Ross@dfo-mpo.gc.ca

Tetjana Ross (MONITOR, WG 38)

Institute of Ocean Sciences
Fisheries and Oceans Canada
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: tetjana.ross@dfo-mpo.gc.ca

Akash Sastri (SB, BIO, WG 37, WG 48, AP-NPCOOS)

BIO Chair, WG 37 Co-Chair
Fisheries and Ocean Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Akash.Sastri@dfo-mpo.gc.ca

Nadja Stefanie Steiner (WG 44)

Fisheries and Ocean Canada
Institute of Ocean Sciences
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: nadja.steiner@dfo-mpo.gc.ca

Membership – 2021

Karyn D. Suchy (WG 37)

Department of Earth, Ocean and Atmospheric Sciences
University of British Columbia
2020-2207 Main Mall
Vancouver, BC, V6T 1Z4
Canada
E-mail: ksuchy@eoas.ubc.ca

Curtis Suttle (WG 46)

Department of Earth, Ocean and Atmospheric Sciences
University of British Columbia
2020 – 2207 Main Mall
Vancouver, BC, V6T 1Z4
Canada
E-mail: suttle@science.ubc.ca

Thomas W. Therriault (MEQ, FUTURE SSC, AP-NIS) MEQ Vice-Chair, AP-NIS Chair

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Thomas.Therriault@dfo-mpo.gc.ca

Andrew Thomson (F&A, GC)

Fisheries and Oceans Canada
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC, V9T 6N7
Canada
E-mail: Andrew.Thomson@dfo-mpo.gc.ca

Charles Trick (S-HAB)

Department of Biology
Western University (Emeritus)
North Campus Bldg., 1151 Richmond St. N.
London, ON, N6A 5B7
Canada
E-mail: trick@uwo.ca

Andrew W. Trites (S-MBM)

Institute for the Oceans and Fisheries
University of British Columbia
AERL, 2202 Main Mall
Vancouver, BC, V6T 1Z4
Canada
E-mail: a.trites@oceans.ubc.ca

Bernard Vigneault (F&A, GC)

Fisheries and Oceans Canada
200 Kent St.
Ottawa, ON, K1A 0E6
Canada
E-mail: bernard.vigneault@dfo-mpo.gc.ca

Douglas W. Wallace (WG 46)

WG 46 PICES Co-Chair
Oceanography
Dalhousie University
P.O. Box 15000
Halifax, NS, B3H 4R2
Canada
E-mail: Douglas.Wallace@dal.ca

Lori Waters (SG-SciCom)

PICES Secretariat
P.O. Box 6000
Sidney, BC, V8L 4B2
Canada
E-mail: Lori.Waters@pices.int

Andrea White (SG-UNDOS)

Fisheries and Oceans Canada
200 Kent St., MS 12S030
Ottawa, ON, K1A 0E6
Canada
E-mail: andrea.white@dfo-mpo.gc.ca

China, People's Republic of

Ying Bao (WG 40)

First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, 266061
People's Republic of China
E-mail: baoying@fio.org.cn

Fei Chai (WG 40, WG 43)

Second Institute of Oceanography, MNR
36 Baochubei Rd.
Hangzhou, 310012
People's Republic of China
E-mail: fchai@sio.org.cn

Jianfang Chen (WG 46)

Second Institute of Oceanography, MNR
36 Baochubei Rd.
Hangzhou, Zhejiang, 310012
People's Republic of China
E-mail: fchen@sio.org.cn

Jie Chen (SG-SciCom)

Fourth Institute of Oceanography
26 Xinshiji Rd.
Yinhai District
Beihai, Guangxi, 536000
People's Republic of China
E-mail: 446741838@qq.com

Liqi Chen (S-CC)

Third Institute of Oceanography, MNR
178 Daxue Rd., Siming District
Xiamen, Fujian, 361005
People's Republic of China
E-mail: chenliqi@tio.org.cn

Manchun Chen (TCODE, AP-NPCOOS)

Marine Ecological Environmental Department
National Marine Data and Information Service, MNR
93 Liuwei Rd., Hedong District
Tianjin, 300171
People's Republic of China
E-mail: 87603116@qq.com

Shang Sunny Chen (HD, WG 41)

WG 41 Co-Chair

First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: qdcs@163.com

Shuai Chen (S-MBM)

Laboratory of Fishing Technology and Fishery Engineering
East China Sea Fisheries Research Institute, CAFS
300 Jungong Rd., Yangpu District
Shanghai, 200090
People's Republic of China
E-mail: yangpu79@qq.com

Jinqiu Du (WG 40)

Department of Marine Chemistry
National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: jinqiu609@163.com

Jingfeng Fan (WG 46)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: jffan@nmemc.org.cn

Chunlei Gao (S-HAB)

Center for Marine Ecology Research
First Institute of Oceanography, MNR
6 Xianxialing Rd., Hi-Tech Park, LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: gaochunlei@fio.org.cn

Zhongyong Gao (S-CC, WG 39, WG 44)

Third Institute of Oceanography, MNR
178 Daxue Rd., Siming District
Xiamen, Fujian, 361005
People's Republic of China
E-mail: zgao@263.net

Yanbin Gu (WG 36)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: ybgu@nmemc.org.cn

Chunjiang Guan (S-HAB)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: cjguan@nmemc.org.cn

Hao Guo (S-HAB)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: hguo@nmemc.org.cn

Xianghui Guo (S-CC)

State Key Laboratory of Marine Environmental Science
Xiamen University
4221 South Xiang'An Rd., Xiang'An District
Xiamen, Fujian 361102
People's Republic of China
E-mail: xhguo@xmu.edu.cn

Yang Han (HD)

Development Research Center of the State Council of the
People's Republic of China
225 Chaoyangmennei Ave., Dongcheng District
Beijing, 100010
People's Republic of China
E-mail: hany@drc.gov.cn

Hao Huang (WG 35)

Third Institute of Oceanography, MNR
178 Daxue Rd., Siming District
Xiamen, Fujian, 361005
People's Republic of China
E-mail: huanghao@tio.org.cn

Honghui Huang (MONITOR)

South China Sea Fisheries Research Institute, CAFS
231 West Xingang Rd.
Guangzhou, Guangdong, 510300
People's Republic of China
E-mail: huanghh@scsfri.ac.cn

Chuanlin Huo (MEQ)

Department of Planning and Management
National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: PM_CWTH@163.com

Membership – 2021

Nianzhi Jiao (WG 46)

WG 46 PICES Co-Chair

State Key Laboratory of Marine Environmental Science
Xiamen University, Xiang-An Campus
4221 Xiang-An South Rd.
Xiamen, Fujian, 361102
People's Republic of China
E-mail: jjiao@xmu.edu.cn

Xianshi Jin (SB, FIS, WG 43)

FIS Chair

Yellow Sea Fisheries Research Institute, CAFS
106 Nanjing Rd., Shinan District
Qingdao, Shandong, 266071
People's Republic of China
E-mail: jin@ysfri.ac.cn

Yue Jin (WG 45)

Yellow Sea Fisheries Research Institute, Chinese Academy
of Fishery Sciences
106 Nanjing Rd.
Qingdao, Shandong, 266071
People's Republic of China
E-mail: jinyue@ysfri.ac.cn

Wei Lei (S-MBM)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: wlei@nmemc.org.cn

Chunhou Li (MEQ)

South China Sea Fisheries Research Institute, CAFS
231 West Xingang Rd., Haizhu District
Guangzhou, Guangdong, 510300
People's Republic of China
E-mail: scslch@vip.163.com

Daoji Li (WG 42)

State Key laboratory of Estuarine and Coastal Research
East China Normal University
500 Dongchuan Rd.
Shanghai, 200241
People's Republic of China
E-mail: daojili@sklec.ecnu.edu.cn

Jingmei Li (HD, WG 41)

School of Economics
Ocean University of China
238 Songling Rd.
Qingdao, Shandong, 266061
People's Republic of China
E-mail: jingmeili66@163.com

Qiufen Li (S-HAB)

Yellow Sea Fisheries Research Institute, CAFS
106 Nanjing Rd., Shinan District
Qingdao, Shandong, 266071
People's Republic of China
E-mail: liqf@ysfri.ac.cn

Xiaopei Lin (WG 38)

College of Physical and Environmental Oceanography
Ocean University of China
238 Songling Rd., Laoshan District
Qingdao, Shandong, 266100
People's Republic of China
E-mail: linxiaop@ouc.edu.cn

Zhongsheng Lin (AP-NPCOOS)

Marine Environment Chemistry Division
National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: zslin@nmemc.org.cn

Guimei Liu (S-CCME)

National Marine Environmental Forecasting Center, MNR
8 Dahuisi Rd., Haidian District
Beijing, 100081
People's Republic of China
E-mail: liugm@nmefc.cn

Jihua Liu (WG 46)

Institute of Marine Science and Technology
Shandong University
72 Binhai Rd.
Qingdao, Shandong, 266237
People's Republic of China
E-mail: liujihua1982@foxmail.com

Lin Liu (WG 35)

Center for Ocean and Climate Research (COCR)
First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: liul@fio.org.cn

Sumei Liu (AP-CREAMS)

Department of Marine Chemistry
Ocean University of China
238 Songling Rd., LaoShan District
Qingdao, Shandong, 266100
People's Republic of China
E-mail: sumeilu@ouc.edu.cn

Wei Liu (WG 41)

First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: weiliu@fio.org.cn

Douding Lu (S-HAB)

Marine Ecosystem and Biogeochemistry
Second Institute of Oceanography, MNR
36 Baochubei Rd.
Hangzhou, Zhejiang, 310012
People's Republic of China
E-mail: doudinglu@sio.org.cn

Shuyang Ma (WG 45)

Fishery College
Ocean University of China
5 Yushan Rd.
Qingdao, Shandong, 266003
People's Republic of China
E-mail: mashuyang@ouc.edu.cn

Zhuojun Ma (FIS)

Chinese Academy of Fishery Sciences
150 Qingtaacun, South Yongding Rd., Fengtai District
Beijing, 100141
People's Republic of China
E-mail: mazj@cafs.ac.cn

Hongxia Ming (WG 35)

Marine Ecology
National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
DaLian, Liaoning, 116023
People's Republic of China
E-mail: hxming@nmemc.org.cn

Guangshui Na (SB, FUTURE SSC, MEQ, WG 35, WG 39)

MEQ Chair
National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: gsna2010@163.com

Connie Ka-yan Ng (WG 42)

Department of Chemistry and State Key Laboratory
in Marine Pollution
City University of Hong Kong
83 Tat Chee Ave., Kowloon Tong
Hong Kong Special Administrative Region, P5840
People's Republic of China
E-mail: kayan.ng.connie@gmail.com

Benrong Peng (WG 41)

College of Environment and Ecology
Xiamen University
Xiang'an Campus
Xiamen, Fujian, 361021
People's Republic of China
E-mail: brpeng@xmu.edu.cn

Di Qi (SG-ECOP)

Third Institute of Oceanography, MNR
178 Daxue Rd.
Siming District, Xiamen, 361005
People's Republic of China
E-mail: qidi60@qq.com

Fangli Qiao (GC, FUTURE SSC, POC)

First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: qiaofl@fio.org.cn

Chuanxin Qin (S-CCME)

South China Sea Fisheries Research Institute, CAFS
231 West Xingang Rd., Haizhu District
Guangzhou, Guangdong, 510300
People's Republic of China
E-mail: qinex@scsfri.ac.cn

Xiujuan Shan (FIS, S-CCME, WG 36)

S-CCME Co-Chair, WG 36 Co-Chair
Yellow Sea Fisheries Research Institute, CAFS
106 Nanjing Rd., Shinan District
Qingdao, Shandong, 266071
People's Republic of China
E-mail: shanxj@ysfri.ac.cn

Qi Shu (WG 44)

First Institute of Oceanography, MNR
6 Xian-Xia-Ling Rd., Hi-Tech Industry Park
Qingdao, Shandong, 266061
People's Republic of China
E-mail: shuqi@fio.org.cn

Chengjun Sun (FUTURE SSC, WG 42) WG 42 Co-Chair

First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, 266061
People's Republic of China
E-mail: csun@fio.org.cn

Yongjun Tian (WG 43, WG 45)

College of Fisheries
Ocean University of China
5 Yushan Rd.
Qingdao, Shandong
People's Republic of China 266003
E-mail: yjtian@ouc.edu.cn

Mengmeng Tong (S-HAB)

Ocean College
Zhejiang University
1 Zheda Rd., Dinghai District
Zhoushan, 316021
People's Republic of China
E-mail: mengmengtong@zju.edu.cn

Fangfang Wan (TCODE)

Marine Data Center
National Marine Data and Information Service
93 Liuwei Rd.
Hedong District, Tianjin, 300171
People's Republic of China
E-mail: yjk_nmdis@126.com

Antao Wang (F&A, GC)

Department of International Cooperation
Ministry of Natural Resources China
64 Fuchengmenwai Ave.
Beijing, 100812
People's Republic of China
E-mail: wangantao@msn.com

Membership – 2021

Fan Wang (POC)

Key Lab. of Ocean Circulation and Waves
Institute of Oceanology, CAS
7 Nanhai Rd.
Qingdao, Shandong, 266071
People's Republic of China
E-mail: fwang@ms.qdio.ac.cn

Jinhui Wang (BIO, S-CCME, WG 47)

East China Sea Branch, MNR
630 Dong Tang Rd.
Shanghai, Shanghai, 200137
People's Republic of China
E-mail: wangjinhui@189.cn

Juying Wang (WG 42)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: jywang@nmemc.org.cn

Lijun Wang (AP-NIS)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: ljwang@nmemc.org.cn

Pengbin Wang (S-HAB, SG-ECOP, SG-SciCom)

S-HAB Co-Chair

Key Laboratory of Marine Ecosystem Dynamics
Second Institute of Oceanography, MNR
36 Baochubei Rd.
Hangzhou, Zhejiang, 310012
People's Republic of China
E-mail: algae@sio.org.cn

Bin Xiao (WG 38)

First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: xiaobin@fio.org.cn

Chuanxi Xing (AP-NPCOOS)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: cxxing@nmemc.org.cn

Changan Xu (WG 44)

Third Institute of Oceanography, MNR
178 Daxue Rd., Siming District
Xiamen, 361005
People's Republic of China
E-mail: xuchangan@tio.org.cn

Dongfeng Xu (CREAMS-AP, WG 38)

Second Institute of Oceanography, MNR
36 Baochubei Rd.
Hangzhou, Zhejiang, 310012
People's Republic of China
E-mail: xudongfengsio@sio.org.cn

Zijun Xu (BIO, WG 47)

North China Sea Environmental Monitoring Center
22 Fushun Rd.
Qingdao, Shandong, 266033
People's Republic of China
E-mail: zjxu@sohu.com

Jinkun Yang (TCODE)

Marine Data Center
National Marine Data and Information Service, MNR
93 Liuwei Rd., Hedong District
Tianjin, 300171
People's Republic of China
E-mail: yjk_nmdis@126.com

Qing Yang (WG 37)

National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: qyang@nmemc.org.cn

Yafeng Yang (F&A)

Division of International Cooperation
First Institute of Oceanography, MNR
6 Xianxialing Rd.
Qingdao, 266061
People's Republic of China
E-mail: yyf@fio.org.cn

Fei Yu (AP-CREAMS)

AP-CREAMS Co-Chair

Institute of Oceanology, CAS
7 Nanhai Rd.
Qingdao, Shandong, 266071
People's Republic of China
E-mail: yuf@qdio.ac.cn

Liyang Zhan (S-CC)

Global Change and Marine-Atmospheric Chemistry
Third Institute of Oceanography, MNR
178 Daxue Rd., Siming District
Xiamen, 361005
People's Republic of China
E-mail: zhanliyang@tio.org.cn

Fang Zhang (WG 39)

Biological Department
Polar Research Institute of China
451 Jinqiao Rd., Pudong District
Shanghai, 200136
People's Republic of China
E-mail: zhangfang@pric.org.cn

Hui Zhang (WG 43)

Institute of Oceanology, CAS
7 Nanhai Rd.
Qingdao, Shandong, 26607
People's Republic of China
E-mail: zhanghui@qdio.ac.cn

Kui Zhang (WG 43)

South China Sea Fisheries Research Institute, CAFS
231 West Xingang Road, Haizhu District
Guangzhou, Guangdong, 510000
People's Republic of China
E-mail: zhangkui@scsfri.ac.cn

Rui Zhang (WG 46)

Xiamen University
4221 Xiang'an Nan Rd.
Xiamen, 361102
People's Republic of China
E-mail: ruizhang@xmu.edu.cn

Xuelei Zhang (S-CCME, S-MBM)

Center for Marine Ecology Research
First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: zhangxl@fio.org.cn

Zhifeng Zhang (MONITOR)

Marine Environmental Chemistry Division
National Marine Environmental Monitoring Center, MEE
42 Linghe St., Shahekou District
Dalian, Liaoning, 116023
People's Republic of China
E-mail: zfzhang@nmemc.org.cn

Liyuan Zhao (S-MBM)

Third Institute of Oceanography, MNR
178 Daxue Rd.
Xiamen, 361005
People's Republic of China
E-mail: zhaoliyuan@tio.org.cn

Xianyong Zhao (MONITOR)

Yellow Sea Fisheries Research Institute, CAFS
106 Nanjing Rd.
Qingdao, Shandong, 266071
People's Republic of China
E-mail: zhaoxy@ysfri.ac.cn

Yumei Zhao (S-CC)

Operation and Project Management Department
National Ocean Technology Center, MNR
219 Jieyuanxi Rd., Nankai District
Tianjin, 300112
People's Republic of China
E-mail: sensor_zym@126.com

Li Zheng (AP-NIS)

Marine Ecology Center
First Institute of Oceanography, MNR
6 Xianxialing Rd., LaoShan District
Qingdao, Shandong, 266061
People's Republic of China
E-mail: zhengli@fio.org.cn

Yisen Zhong (WG 38)

Shanghai Jiao Tong University
1954 Huashan Rd.
Shanghai, 200000
People's Republic of China
E-mail: yisen.zhong@sjtu.edu.cn

Lei Zhou (POC)

Second Institute of Oceanography, MNR
36 Baochubei Rd.
Hangzhou, Zhejiang, 310012
People's Republic of China
E-mail: lzhou@sio.org.cn

Ping Zhuang (BIO)

East China Sea Fisheries Research Institute, CAFS
300 Jungong Rd., Yangpu District
Shanghai, 200090
People's Republic of China
E-mail: pzhuang@ecsf.ac.cn

Japan

Hiroto Abe (MONITOR)

Faculty of Fisheries Sciences
Hokkaido University
3-1-1 Minato-cho
Hakodate, 041-8611
Japan
E-mail: abe@fish.hokudai.ac.jp

Daisuke Ambe (TCODE)

Japan Fisheries Research and Education Agency (FRA)
2-12-4 Fukuura, Kanazawa-ku
Yokohama, Kanagawa, 236-8648
Japan
E-mail: ambe@affrc.go.jp

Robert Blasiak (WG 36)

Laboratory of Global Fisheries Science
The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku
Tokyo, 113-8657
Japan
E-mail: robert.blasiak@su.se

Membership – 2021

Tetsuo Fujii (GC, FUTURE SSC, FIS)

PICES Vice-Chair

Fisheries Agency
Ministry of Agriculture, Forestry and Fisheries of Japan
1-2-1 Kasumigaseki, Chiyoda-ku
Tokyo, 100-8907
Japan
E-mail: tetsuo_fujii810@maff.go.jp

Kunihiro Fujiwara (WG 45)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
1-5939-22 Suido-cho, Chuo-ku
Niigata, 951-8121
Japan
E-mail: fujikuni@affrc.go.jp

Daisuke Hasegawa (POC, WG 38)

Tohoku National Fisheries Research Institute
Japan Fisheries Research and Education Agency (FRA)
3-27-5 Shinhama-cho
Shiogama, Miyagi, 985-0001
Japan
E-mail: daisukeh@affrc.go.jp

Kaoru Hattori (BIO, S-MBM)

S-MBM Co-Chair

Hokkaido National Fisheries Research Institute
Japan Fisheries Research and Education Agency (FRA)
116 Katsurakoi
Kushiro, Hokkaido, 085-0802
Japan
E-mail: khattori@fra.affrc.go.jp

Takafumi Hirata (WG 44)

Arctic Research Center
Hokkaido University
N21W11 Kita-ku
Sapporo, Hokkaido, 001-0021
Japan
E-mail: tahi@arc.hokudai.ac.jp

Yosuke Igeta (AP-CREAMS)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
1-5939-22 Suido-cho, Chuo-ku
Niigata, 951-8121
Japan
E-mail: igeta@affrc.go.jp

Masao Ishii (S-CC)

Meteorological Research Institute
1-1 Nagamine
Tsukuba, Ibaraki, 305-0052
Japan
E-mail: mishii@mri-jma.go.jp

Joji Ishizaka (AP-CREAMS, WG 35)

CREAMS-AP Co-Chair

Institute for Space-Earth Environmental Research
Nagoya University
Furo-cho, Chikusa-ku
Nagoya, Aichi, 464-8601
Japan
E-mail: jishizaka@nagoya-u.jp

Daiki Ito (TCODE)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency
Fukuura 2-12-4, Kanazawa-ku
Yokohama, 236-8648
Japan
E-mail: dito@affrc.go.jp

Shin-ichi Ito (POC, S-CCME, WG 45)

WG 45 Co-Chair

Atmosphere and Ocean Research Institute
The University of Tokyo
5-1-5 Kashiwanoha
Kashiwa, Chiba, 277-8564
Japan
E-mail: goito@aori.u-tokyo.ac.jp

Sachihiko Itoh (WG 38, WG 43)

Atmosphere and Ocean Research Institute
The University of Tokyo
5-1-5 Kashiwanoha
Kashiwa, Chiba, 277-8564
Japan
E-mail: itohsach@aori.u-tokyo.ac.jp

Mitsunori Iwataki (S-HAB)

Asian Natural Environmental Science Center
The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku
Bunkyo, Tokyo, 113-8657
Japan
E-mail: iwataki@anesc.u-tokyo.ac.jp

Akihide Kasai (MEQ)

Graduate School of Fisheries Sciences
Hokkaido University
3-1-1 Minato-cho
Hakodate, Hokkaido, 041-8611
Japan
E-mail: akihide@fish.hokudai.ac.jp

Satoshi Kitajima (WG 48)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
1551-8 Taira-machi
Nagasaki, Nagasaki, 851-2213
Japan
E-mail: kitaji@affrc.go.jp

Hiroshi Kawai (AP-NIS)

Research Center for Inland Seas
Kobe University
1-1 Rokkodai, Nada-ku
Kobe, Hyogo, 657-8501
Japan
E-mail: kawai@kobe-u.ac.jp

Satoshi Kitajima (WG 48)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
1551-8 Taira-machi
Nagasaki, Nagasaki, 851-2213
Japan
E-mail: kitaji@affrc.go.jp

Toshihide Kitakado (WG 43)

ex-officio, represents NPFC
Department of Marine Biosciences
Tokyo University of Marine Science and Technology
5-7, Konan 4, Minato
Tokyo, 108-8477
Japan
E-mail: kitakado@kaiyodai.ac.jp

Minoru Kitamura (MONITOR)

Research Center for Global Change
Japan Agency for Marine-Earth Science and Technology
2-15 Natsushima
Yokosuka, Kanagawa, 236-0061
Japan
E-mail: kitamura@jamstec.go.jp

Hidetada Kiyofuji (F&A, WG 47)

Fisheries Agency
Ministry of Agriculture, Forestry and Fisheries of Japan
1-2-1 Kasumigaseki, Chiyoda-ku
Tokyo, 100-8907
Japan
E-mail: hidetada_kiyofuji310@maff.go.jp

Toru Kobari (WG 37)

WG 37 Co-Chair
Faculty of Fisheries
Kagoshima University
4-50-20 Shimoarata
Kagoshima, Kagoshima, 890-0056
Japan
E-mail: kobari@fish.kagoshima-u.ac.jp

Hiroshi Kuroda (S-CCME)

Hokkaido National Fisheries Research Institute
Japan Fisheries Research and Education Agency (FRA)
116 Katsurakoi
Kushiro, Hokkaido, 085-0802
Japan
E-mail: kurocan@affrc.go.jp

Hideaki Maki (MEQ)

National Institute for Environmental Studies (NIES)
16-2 Onogawa
Tsukuba, Ibaraki, 305-8506
Japan
E-mail: hidemaki@nies.go.jp

Mitsutaku Makino (SB, FUTURE SSC, HD, SG-SciCom, SG-UNDOS)

HD Chair
Atmosphere and Ocean Research Institute (AORI)
The University of Tokyo
5-1-5 Kashiwanoha, Kashiwa-shi
Chiba, 277-8564
Japan
E-mail: mmakino@aori.u-tokyo.ac.jp

Kohei Matsuno (WG 44)

Hokkaido University
3-1-1 Minatomachi
Hakodate, Hokkaido, 041-8611
Japan
E-mail: k.matsuno@fish.hokudai.ac.jp

Yutaka Michida (TCODE)

ex-officio, represents IODE
Atmosphere and Ocean Research Institute
The University of Tokyo
5-1-5 Kashiwanoha, Kashiwa-shi
Chiba, 277-8564
Japan
E-mail: ymichida@aori.u-tokyo.ac.jp

Shoshiro Minobe (WG 40)

WG 40 CLIVAR Co-Chair
Earth and Planetary Sciences, Graduate School of Sciences
Hokkaido University
N10W8 Rigaku-8-goukan 3F
Sapporo, Hokkaido, 060-0810
Japan
E-mail: minobe@sci.hokudai.ac.jp

Yoichi Miyake (S-HAB)

Fisheries Technology Institute
Fisheries Research and Education Agency (FRA)
2-17-5 Maruishi
Hatsukaichi-shi, Hiroshima, 739-0452
Japan
E-mail: miyakey1@affrc.go.jp

Mai Miyamoto (WG 47)

WG 47 Co-Chair
JAPAN NUS CO., LTD
Nishi-Sinjuku Prime Square 5F 7-5-25
Shinjuku-ku, 160-0023
Tokyo, Japan
E-mail: miyamoto-mi@janus.co.jp

Membership – 2021

Kazuhiko Mochida (MEQ, WG 42)

National Research Institute of Fisheries and Environment
of Inland Sea
Fisheries Research and Education Agency (FRA)
2-17-5 Maruishi
Hatsukaichi, Hiroshima, 739-0452
Japan
E-mail: kmochida@fra.affrc.go.jp

Akihiko Murata (S-CC)

Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)
2-15 Natsushima-cho
Yokosuka, Kanagawa, 237-0061
Japan
E-mail: murataa@jamstec.go.jp

Shin-ichiro Nakaoka (S-CC)

National Institute for Environmental Studies
16-2 Onogawa
Tsukuba, 305-8506
Japan
E-mail: nakaoka.shinichiro@nies.go.jp

Natsuko Nakayama (S-HAB)

Harmful Algal Blooms Group
Japan Fisheries Research and Education Agency (FRA)
2-17-5 Maruishi
Hatsukaichi, 739-0452
Japan
E-mail: nnakayama@affrc.go.jp

Shinichiro Nakayama (WG 43)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
2-12-4, Fukuura, Kanazawa, 236-8648
Yokohama, Japan
E-mail: shinichironak@affrc.go.jp

Haruka Nishikawa (WG 43)

Research Institute for Value-Added-Information Generation
Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)
3173-25 Showa-machi, Kanazawa-ku
Yokohama, Kanagawa, 236-0001
Japan
E-mail: harukan@jamstec.go.jp

Shigeto Nishino (WG 44)

Institute of Arctic Climate and Environment Change
Research
Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)
2-15 Natsushima-cho
Yokosuka, Kanagawa, 237-0061
Japan
E-mail: nishinos@jamstec.go.jp

Masami Nonaka (WG 40)

WG 40 PICES Co-Chair

Climate Variability Prediction and Application Research
Group, Application Laboratory
Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)
3173-25 Showa-machi, Kanazawa-ku
Yokohama, Kanagawa, 236-0001
Japan
E-mail: nona@jamstec.go.jp

Fujio Ohnishi (WG 39)

Arctic Research Center
Hokkaido University
Kita-21 Nishi-11 Kita-ku
Sapporo, Hokkaido, 001-0021
Japan
E-mail: fujio.ohnishi@arc.hokudai.ac.jp

Tsuneo Ono (S-CC, WG 35)

S-CC Co-Chair

National Research Institute of Far Seas Fisheries
Japan Fisheries Research and Education Agency (FRA)
2-12-4 Fukuura, Kanazawa-Ku
Yokohama, Kanagawa, 236-8648
Japan
E-mail: tono@fra.affrc.go.jp

Raphael Kevin Roman (SG-ECOP)

Iwate University
3-18-8 Ueda, Morioka-shi
Iwate, 020-8550
Japan
E-mail: raphgenf@iwate-u.ac.jp

Hiroaki Saito (SG-UNDOS)

Atmosphere and Ocean Research Institute
The University of Tokyo
5-1-5 Kashiwanoha
Kashiwa, Chiba, 277-8564
Japan
E-mail: hsaito@aori.u-tokyo.ac.jp

Sei-Ichi Saitoh (WG 39)

WG 39 PICES Co-Chair

Arctic Research Center
Hokkaido University
N21W11 Kita-ku
Sapporo, Hokkaido, 001-0021
Japan
E-mail: ssaitoh@salmon.fish.hokudai.ac.jp

Setsuko Sakamoto (S-HAB)

National Research Institute of Fisheries and Environment
of Inland Sea
Japan Fisheries Research and Education Agency (FRA)
2-17-5 Maruishi
Hatsukaichi, Hiroshima, 739-0452
Japan
E-mail: sssaka@affrc.go.jp

Yoshikazu Sasai (WG 38)

Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)
3173-25 Showa-machi, Kanazawa-ku
Yokohama, 236-0001
Japan
E-mail: ysasai@jamstec.go.jp

Shota Sato (F&A)

Fisheries Agency
Ministry of Agriculture, Forestry and Fisheries of Japan
1-2-1 Kasumigaseki, Chiyoda-ku
Tokyo, 100-8907
Japan
E-mail: shota_sato410@maff.go.jp

**Aoi Sugimoto (HD, WG 41, SG-SciCom, SG-ECOP)
SG-SciCom Co-Chair**

National Research Institute of Fisheries Science
Japan Fisheries Research and Education Agency (FRA)
2-12-4 Fukuura, Kanazawa-ku
Yokohama, Kanagawa, 236-8648
Japan
E-mail: aois@affrc.go.jp

Hiroaki Sugino (SG-ECOP)

The University of Tokyo
Yayoi 1-1-1
Bunkyo-ku, Tokyo, 113-8657
Japan
E-mail: a-sugino@g.ecc.u-tokyo.ac.jp

Nobuaki Suzuki (FIS)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
2-12-4 Fukuura, Kanazawa-ku
Yokohama, 236-8648
Japan
E-mail: suzunobu@affrc.go.jp

Toru Suzuki (TCODE, S-CC)

Marine Information Research Center
Japan Hydrographic Association
1-6-6-6F Hanedakuko
Ota-ku, Tokyo, 144-0041
Japan
E-mail: suzuki@mirc.jha.jp

Eisuke Tachikawa (SG-SciCom)

7F East Gate Building, Yamashita, Naka-ku
Yokohama, Kanagawa, 231-0023
Japan
E-mail: est@nosigner.com

Kazuaki Tadokoro (MONITOR, WG 35, WG 37)

Stock Productivity Section
Tohoku National Fisheries Research Institute
Japan Fisheries Research and Education Agency (FRA)
3-27-5 Shinhama-cho
Shiogama, Miyagi, 985-0001
Japan
E-mail: den@affrc.go.jp

Hideshige Takada (WG 42)

Laboratory of Organic Geochemistry
Tokyo University of Agriculture and Technology
3-5-8 Saiwaicho
Fuchu, Tokyo, 183-8509
Japan
E-mail: shige@cc.tuat.ac.jp

Motomitsu Takahashi (BIO, S-CCME, WG 43)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
1551-8 Taira-machi
Nagasaki, Nagasaki, 851-2213
Japan
E-mail: takahamt@fra.affrc.go.jp

Akinori Takasuka (WG 40, WG 43)

WG 43 PICES Co-Chair
Agricultural and Life Sciences
The University of Tokyo
1-1-1 Yayoi, Bunkyo-ku
Tokyo, 113-8657
Japan
E-mail: atakasuka@mail.ecc.u-tokyo.ac.jp

Shion Takemura (HD, WG 36)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
2-12-4 Fukuura, Kanazawa-ku
Yokohama, Kanagawa, 236-8648
Japan
E-mail: shiontakemura@affrc.go.jp

Kenji Taki (WG 47)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
2-12-4, Fukuura, Kanazawa-ku
Yokohama, Kanagawa, 236-8648
Japan
E-mail: takisan@fra.affrc.go.jp

Tsutomu Tamura (S-MBM)

The Institute of Cetacean Research
4-5 Toyomi, Chuo-ku
Tokyo, 104-0055
Japan
E-mail: tamura@cetacean.jp

Shuhei Tanaka (WG 42)

Graduate School of Global Environmental Studies
Kyoto University
Yoshidahon-machi, Sakyo-ku
Kyoto, 606-8501
Japan
E-mail: t-shuhei@eden.env.kyoto-u.ac.jp

Takahiro Tanaka (AP-NPCOOS)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
3-27-5 Shinhama-cho
Shiogama, Miyagi, 9850001
Japan
E-mail: takahiro@affrc.go.jp

Membership – 2021

Naoki Tojo (FIS)

Faculty of Fisheries Sciences
Hokkaido University
3-1-1, Minato-cho
Hakodate, 041-8611
Japan
E-mail: n.tojo.raven@fish.hokudai.ac.jp

Takeshi Tomiyama (WG 45)

School of Applied Biological Science
Hiroshima University
1-4-4 Kagamiyama
Higashi-hiroshima, Hiroshima, 739-8528
Japan
E-mail: tomiyama@hiroshima-u.ac.jp

Atsushi Tsuda (BIO)

Atmosphere and Ocean Research Institute
The University of Tokyo
5-1-5 Kashiwanoha
Kashiwa, Chiba, 277-8564
Japan
E-mail: tsuda@aori.u-tokyo.ac.jp

Hikomichi Ueno (POC, WG 38)

WG 38 Co-Chair
Faculty of Fisheries Sciences
Hokkaido University
3-1-1 Minato-cho
Hakodate, Hokkaido, 041-8611
Japan
E-mail: ueno@fish.hokudai.ac.jp

Hideki Uezono (GC)

International Science Cooperation Division
Ministry of Foreign Affairs of Japan
2-2-1 Kasumigaseki, Chiyoda-ku, 100-8919
Tokyo, Japan
E-mail: hideki.uezono@mofa.go.jp

Hiroki Wakamatsu (WG 41)

Fisheries Resources Institute
Japan Fisheries Research and Education Agency (FRA)
2-7-1 Nagatahonmachi, Shimonoseki, 759-6595
Yamaguchi, Japan
E-mail: hwakamatsu@affrc.go.jp

Kazumi Wakita (WG 36)

School of Marine Science and Technology
Tokai University
3-20-1 Orido, Shimizu-ku
Shizuoka, 424-8610
Japan
E-mail: kazumiw@tokai-u.jp

Satoshi Watanabe (AP-NIS)

Fisheries Technology Institute
Japan Fisheries Research and Education Agency (FRA)
2-12-4 Fukuura, Kanazawa-ku
Yokohama, Kanagawa, 236-8648
Japan
E-mail: swat@affrc.go.jp

Yutaka Watanuki (S-MBM, WG 44)

Graduate School of Fisheries Sciences
Hokkaido University
3-1-1 Minato-cho
Hakodate, Hokkaido, 040-8611
Japan
E-mail: ywata@fish.hokudai.ac.jp

Youhei Yamashita (WG 46)

Hokkaido University
North 10 West 5, Kita-ku
Sapporo, Hokkaido, 060-0810
Japan
E-mail: yamashiy@ees.hokudai.ac.jp

Takafumi Yoshida (S-HAB)

ex-officio, represents NOWPAP
NOWPAP CEARAC
5-5 Ushijima Shin-machi
Toyama, 930-0856
Japan
E-mail: yoshida@npec.or.jp

Naoki Yoshie (AP-NPCOOS)

AP-NPCOOS Co-Chair
Center for Marine Environmental Studies
Ehime University
2-5 Bunkyo-cho
Matsuyama, Ehime, 790-8577
Japan
E-mail: yoshie.naoki.mm@ehime-u.ac.jp

Jing Zhang (AP-CREAMS)

Graduate School of Science and Engineering
University of Toyama
3190 Gofu-ku
Toyama, 930-8555
Japan
E-mail: jzhang@sci.u-toyama.ac.jp

Yanhui Zhu (SG-ECOP)

Hokkaido University
Nanaehama 3-11-2 Vesna1 205
Hokuto, Hokkaido, 0490111
Japan
E-mail: zhuyanhui0817@eis.hokudai.ac.jp

Korea, Republic of

Yong-Rock An (S-MBM)

Department of Taxonomy and Systematics
National Marine Biodiversity Institute of Korea
101 Jangsan-ro, Janghang-eup
Seocheon-gun, Chungcheongnam-do, 33662
Republic of Korea
E-mail: rock@mabik.re.kr

Seung Ho Baek (S-HAB)

South Sea Research Institute
Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok-1-gil, Jangmok-myeon
Geoje, 53201
Republic of Korea
E-mail: baeksh@kiost.ac.kr

Keun-Hyung Choi (AP-NIS)

Department of Oceanography and Ocean Environmental
Sciences
Chungnam National University
99 Daehak-ro, Yuseong-gu
Daejeon, 34134
Republic of Korea
E-mail: keunhchoi@cnu.ac.kr

Minkyu Choi (WG 35)

Marine Environment Research Division
National Institute of Fisheries Science (NIFS, MOF)
216 Haean-ro, Gijang-eup, Gijang-gun
Busan, 619-705
Republic of Korea
E-mail: mkchoi3@korea.kr

Sang Hee Hong (WG 42)

Oil and POPs Research Group
Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok-1-gil, Jangmok-myeon
Geoje, 53201
Republic of Korea
E-mail: shhong@kiost.ac.kr

Seongjin Hong (MEQ)

Department of Ocean Environmental Sciences
Chungnam National University
99 Daehak-ro, Yuseong-gu
Daejeon, 34134
Republic of Korea
E-mail: hongseongjin@cnu.ac.kr

Jinsil Hwang (F&A)

Ministry of Oceans and Fisheries (MOF)
94 Dasom 2-ro
Sejong, 30110
Republic of Korea
E-mail: jinsilhwang@korea.kr

Jung-Ho Hyun (WG 46)

Hanyang University
55 Hanyangdaehak-ro, Sangnok-gu
Ansan, 15588
Republic of Korea
E-mail: hyunjh@hanyang.ac.kr

Chan Joo Jang (POC, WG 40)

Ocean Circulation and Climate Research Center
Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Youngdo-gu
Busan, 49111
Republic of Korea
E-mail: cjang@kiost.ac.kr

Min-Chul Jang (WG 37)

South Sea Research Institute
Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok-1-gil, Jangmok-myeon
Geoje, 53201
Republic of Korea
E-mail: mcjang@kiost.ac

Min-Chul Jang (WG 37)

South Sea Research Institute
Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok 1-gil
Jangmok-myeon
Geoje, Gyeongsangnam-do 53201
Republic of Korea
E-mail: mcjang@kiost.ac

Hae Jin Jeong (S-HAB)

College of Natural Sciences
Seoul National University
Gwanak-599, Gwanak-ro, Gwanak-gu
Seoul, 151-742
Republic of Korea
E-mail: hjujeong@snu.ac.kr

Hee-Dong Jeong (AP-CREAMS)

East Sea Fisheries Institute
National Institute of Fisheries Science (NIFS)
1194 Haean-ro, Yeongok-myeon
Gangneung, Gangwon-do, 25435
Republic of Korea
E-mail: hdjeong@korea.kr

HuiTae Joo (TCODE)

Korea Oceanographic Data Center Ocean Climate &
Ecology Research Division
National Institute of Fisheries Sciences
216, Gijanghaean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: huitae@korea.kr

Membership – 2021

Se-Jong Ju (GC, BIO, WG 37)

Global Ocean Research Center
Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: sjju@kiost.ac.kr

Sukgeun Jung (FIS, S-CCME, WG 45)

School of Marine Biomedical Sciences
Jeju National University
102 Jejudaehak-ro, Jeju-si, Jeju-do
Jeju, 63243
Republic of Korea
E-mail: sukgeun.jung@gmail.com

Eunho Jung (MONITOR)

Korea Hydrographic and Oceanographic Agency (KHOA)
351 Haeyang-ro, Yeongdo-gu, 49111
Busan, Republic of Korea
E-mail: Ehjung109@korea.kr

Dong-Jin Kang (WG 35)

Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: djocean@kiost.ac.kr

Hyung-Ku Kang (WG 37)

Marine Ecosystem and Biological Research Center
Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: kanghk@kiost.ac.kr

Jung-Hoon Kang (WG 37)

Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok 1-gil, Jangmok-myeon
Geoje, Gyeongsangnam-do, 53201
Republic of Korea
E-mail: jhkang@kiost.ac.kr

Sukyung Kang (SB, FUTURE SSC, FIS, S-CCME, WG 43, SG-UNDOS)

FUTURE SSC Co-Chair
Fisheries Resources Management Division
National Institute of Fisheries Science (NIFS), MOF
216 Haean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: sukyungkang@korea.kr

Dohoon Kim (HD, WG 43)

Marine and Fisheries Business and Economics
Pukyong National University
Yongso-ro 45, Nam-gu
Busan, 48513
Republic of Korea
E-mail: delaware310@pknu.ac.kr

Eunjung Kim (WG 35)

Distant Water fisheries Resources Research Division
National Institute of Fisheries Science (NIFS)
216 Haean-ro, Gijang-eup, Gijang-gun
Busan, 619-705
Republic of Korea
E-mail: eunjungkim@korea.kr

Guebuem Kim (AP-CREAMS)

School of Earth and Environmental Sciences
Seoul National University
1 Gwanak-ro, Gwanak-gu
Seoul, 08826
Republic of Korea
E-mail: gkim@snu.ac.kr

HeeJin Kim (F&A)

International Cooperation Department
Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: nick4026@kiost.ac.kr

Hye Seon Kim (WG 41)

Department of Ecology and Conservation
National Marine Biodiversity Institute of Korea
101-75, Jangsan-ro, Janghang-eup
Seocheon-gun, Chungcheongnam-do, 33662
Republic of Korea
E-mail: hskim99@mabik.re.kr

Hyun Woo Kim (S-MBM)

Cetacean Research Institute
National Institute of Fisheries Science (NIFS)
250 Jangsaengpogorae-ro
Ulsan, 44780
Republic of Korea
E-mail: hyunwoo.kim@korea.kr

Jung Jin Kim (WG 43)

Fisheries Resources Management Division
National Institute of Fisheries Science
216 Gijanghaean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: king.jungjin@korea.kr

Kwang Young Kim (S-HAB)

Department of Oceanography
Chonnam National University
300 Yongbong-dong, Buk-gu
Kwangju, 500-757
Republic of Korea
E-mail: kykim@jnu.ac.kr

Miran Kim (S-MBM, WG 42)

Seabirds Lab. of Korea
#506-2301, 250 Shinjeong-ro
Wonju, Kangwon-do, 26353
Republic of Korea
E-mail: ruddyduck318@gmail.com

Seung-Kyu Kim (WG 42)

Department of Marine Science
Incheon National University
119 Academy-ro, Yeonsu-gu
Incheon, 22012
Republic of Korea
E-mail: skkim@inu.ac.kr

Sung-Dae Kim (TCODE)

Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: sdkim@kiost.ac.kr

Sung Yong Kim (SB, MONITOR, AP-NPCOOS, WG 38, WG 47)

MONITOR Chair, AP-NPCOOS Co-Chair

Environmental Fluid Mechanics Laboratory
Department of Mechanical Engineering
Korea Advanced Institute of Science and Technology (KAIST)
291 Daehak-ro, Yuseong-gu
Daejeon, 34141
Republic of Korea
E-mail: syongkim@kaist.ac.kr

Tae-Goun Kim (HD)

Korea Maritime and Ocean University
727 Tae-jeong-ro, Youngdo-gu
Busan, 49112
Republic of Korea
E-mail: teddykim48@kmou.ac.kr

Tae-Hoon Kim (MEQ)

Chonnam National University
77 Yongbong-ro, Buk-gu
Gwangju 61186
Republic of Korea
E-mail: thkim80@jnu.ac.kr

Taewon Kim (BIO)

Department of Ocean Sciences
Inha University
100 Inha-ro, Nam-gu
Incheon, 22212
Republic of Korea
E-mail: ktwon@inha.ac.kr

Do-hyung Koo (GC)

Ministry of Oceans and Fisheries (MOF)
94 Dasom 2-ro
Sejong, 30110
Republic of Korea
E-mail: marekoo@korea.kr

Jung No Kwon (TCODE)

Marine Environment Research Division
National Institute of Fisheries Science (NIFS)
216 Gijanghaean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: jungnok@korea.kr

MinHo Kwon (WG 40)

Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: mhkwon@kiost.ac.kr

Hyoung Sul La (WG 44)

Korea Polar Research Institute
26 Songdomirae-ro
Incheon, 21990
Republic of Korea
E-mail: hsla@kopri.re.kr

Changsu Lee (WG 41)

Office of External Affairs
National Marine Biodiversity Institute of Korea
101-75, Jangsan-ro, Janghang-eup
Seocheon-gun, Chungcheongnam-do, 33662
Republic of Korea
E-mail: lcs1105@mabik.re.kr

Chung Il Lee (S-CCME, WG 40)

Department of Marine Bioscience
Gangneung-Wonju National University
7 Jukhen-gil
Gangneung-si, 25457
Republic of Korea
E-mail: leeci@gwnu.ac.kr

Jae-Hak Lee (AP-CREAMS, AP-NPCOOS)

AP-CREAMS Co-Chair

Ocean Circulation and Climate Research Center
Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: jhlee@kiost.ac.kr

Joon-Soo Lee (POC)

National Institute of Fisheries Science (NIFS), MOF
216 Gijanghaean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: leejoonsoo@korea.kr

Kitack Lee (S-CC)

Division of Environmental Science and Engineering
Pohang University of Science and Technology (POSTECH)
77 Cheongam-ro, Nam-gu
Pohang, 37673
Republic of Korea
E-mail: ktl@postech.ac.kr

Hye-Won Moon (WG 47)

National Marine Biodiversity Institute of Korea
75 Jangsan-ro 101 Janghang-eup
Seocheon-gun, Chungnam, 33662
Republic of Korea
E-mail: hwmoon@mabik.re.kr

Membership – 2021

Hanna Na (FUTURE SSC, SG-UNDOS)

School of Earth and Environmental Sciences
Seoul National University
1 Gwanak-ro, Gwanak-gu
Seoul, 08826
Republic of Korea
E-mail: hanna.ocean@snu.ac.kr

Jungho Nam (WG 41)

Korea Maritime Institute
Marine Policy Research Division
26 Haeyang-ro 301Beon-gil, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: jhnam@kmi.re.kr

SungHyun Nam (POC, AP-CREAMS, WG 35)

School of Earth and Environmental Sciences
Seoul National University
1 Gwanak-ro, Gwanak-gu
Seoul, 08826
Republic of Korea
E-mail: namsh@snu.ac.kr

Bum Soo Park (SG-ECOP, SG-SciCom)

Marine Ecosystem Research Center
Korea Institute of Ocean Science and Technology
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: parkbs@kiost.ac.kr

Chul Park (GC)

PICES Past-Chair
Department of Oceanography
Chungnam National University
99 Daehang-ro, Yuseong-gu
Daejeon, 34134
Republic of Korea
E-mail: chulpark@cnu.ac.kr

Geun-Ha Park (S-CC)

Marine Environmental Research Center
Korea Institute of Ocean Science and Technology
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: gpark@kiost.ac.kr

Heewon Park (FIS)

National Institute of Fisheries Science
216 Gijang haean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: heewon81@gmail.com

Jongwoo Park (AP-NIS, SG-SciCom)

National Institute of Fisheries Science (NIFS). MOF
216 Gijanghaean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: cyanopark@korea.kr

Tae Gyu Park (S-HAB)

Southeast Sea Fisheries Research Institute
National Institute of Fisheries Science (NIFS)
361 Younwoon-ro, Sanyang-eup
Tongyeong, 53085
Republic of Korea
E-mail: taegyupark@korea.kr

Wongyu Park (BIO, WG 48)

Department of Marine Biology
Pukyong National University
45 Yongso-ro, Nam-gu
Busan, 48513
Republic of Korea
E-mail: wpark@pknu.ac.kr

Young-Gyu Park (WG 38)

Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: ypark@kiost.ac.kr

Jongseong Ryu (HD)

Department of Marine Biotechnology
Anyang University (Ganghwa campus)
602-14 Jungang-no, Bureun-myeon, Ganghwa-gun
Incheon, 23038
Republic of Korea
E-mail: jsryu90@gmail.com

Jeong Hee Shim (MEQ, S-CC)

Marine Resources and Environment Department
East Sea Fisheries Research Institute
National Institute of Fisheries Science (NIFS)
1194 Haean-ro, Yeongok-myeon
Gangneung, Gangwon-do, 25435
Republic of Korea
E-mail: jshim@korea.kr

Wonjoon Shim (GC, WG 42)

South Sea Research Institute
Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok-1-gil, Jangmok-myeon
Geoje, 53201
Republic of Korea
E-mail: wjshim@kiost.ac.kr

Hyung Chul Shin (WG 39)

Division of Polar Ocean Sciences
Korea Polar Research Institute (KOPRI)
26 Songdomirae-ro, Yeonsu-gu
Incheon, 21990
Republic of Korea
E-mail: heshin@kopri.re.kr

Kyungsoon Shin (AP-NIS)

South Sea Research Institute
Korea Institute of Ocean Science and Technology (KIOST)
41 Jangmok 1-gil, Jangmok-myeon
Geoje, 53201
Republic of Korea
E-mail: ksshin@kiost.ac.kr

Moonho Son (S-HAB)

National Institute of Fisheries Science (NIFS)
216 Gijanghaean-ro, Gijang-eup, Gijang-gun
Busan, 46083
Republic of Korea
E-mail: muno77@korea.kr

Seonock Woo (WG 32)

Korea Institute of Ocean Science and Technology (KIOST)
385 Haeyang-ro, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: cwoo@kiost.ac.kr

Sangchoul Yi (WG 36)

Korea Maritime Institute
26 Haeyang-ro 301beon-gil, Yeongdo-gu
Busan, 49111
Republic of Korea
E-mail: yi1@kmi.re.kr

Seung-Hoon Yoo (WG 41)

Seoul National University of Science and Technology
232 Gongreung-ro, Nowon-gu
Seoul, 01811
Republic of Korea
E-mail: shyoo@seoultech.ac.kr

Sinjae Yoo (FUTURE SSC, WG 35)

WG 35 Co-Chair
KIOST-PML Science Office
Korea Institute of Ocean Science and Technology (KIOST)
Prospect Place The Hoe
Plymouth, Devon, PL1 3DH
United Kingdom
E-mail: sjyoo@kiost.ac.kr

Russia

Andrey G. Andreev (S-CC)

V.I. Il'ichev Pacific Oceanological Institute (POI)
FEB RAS
43 Baltiyskaya St.
Vladivostok, Primorsky Kray, 690041
Russia
E-mail: andreev@poi.dvo.ru

Aleksei Baitaliuk (GC)

Pacific branch of VNIRO ("TINRO")
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690091
Russia
E-mail: aleksei.baitaliuk@tinro-center.ru

Tatyana A. Belan (MEQ)

Department of Oceanography and Marine Ecology
Far Eastern Regional Hydrometeorological Research
Institute (FERHRI)
24 Fontannaya St.
Vladivostok, Primorsky Kray, 690091
Russia
E-mail: Tbelan@ferhri.ru

Iana Blinovskaia (WG 42)

Far Eastern Federal University
8 Sukhnova St.
Vladivostok, Russia 690003
E-mail: blinovskaya@hotmail.com

Alexander I. Boltnev (S-MBM)

Sakhalin Research Institute of Fisheries and Oceanography
(SakhNIRO)
196 Komsomolskaya St.
Yuzhno-Sakhalinsk, 693023
Russia
E-mail: aboltnev@mail.ru

Maxim V. Budyansky (WG 38)

Laboratory of Nonlinear Dynamical Systems
V.I. Il'ichev Pacific Oceanological Institute (POI)
FEB RAS
43 Baltiyskaya St.
Vladivostok, Primorsky Kray, 690041
Russia
E-mail: plaztic@poi.dvo.ru

Oleg A. Bulatov (GC)

Fishery Biology
Russian Federal Research Institute of Fisheries and
Oceanography (VNIRO)
17 V. Krasnoselskaya St.
Moscow, 107140
Russia
E-mail: obulatov@vniro.ru

Tatiana N. Dautova (WG 47)

National Scientific Center of Marine Biology
FEB RAS, FEFU
17 Palchevskogo St.
Vladivostok, 690041
Russia
E-mail: tndaut@mail.ru

Elena P. Dulepova (FIS)

Laboratory of Hydrobiology
Pacific branch of VNIRO ("TINRO")
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690950
Russia
E-mail: dep@tinro.ru

Membership – 2021

Alexander I. Glubokov (FIS)

Russian Federal Research Institute of Fisheries and
Oceanography (VNIRO)
17 V. Krasnoselskaya St.
Moscow, 107140
Russia
E-mail: glubokov@vniro.ru

Oleg N. Katugin (FUTURE SSC, HD, WG 43)

Division for International Scientific Cooperation
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Krai, 690090
Russia
E-mail: oleg.katugin@tinro-center.ru

Kirill Kivva (WG 35, WG 44)

Climate and Aquatic Ecosystems Dynamics
Russian Federal Research Institute of Fisheries and
Oceanography (VNIRO)
17 V. Krasnoselskaya St.
Moscow, 107140
Russia
E-mail: kirill.kivva@gmail.com

Nikolai Kozlovskii (WG 42)

Pacific Geographical Institute, FEB RAS
7 Radio St.
Vladivostok, 690041
Russia
E-mail: Nkozlovsky12@mail.ru

Vladimir V. Kulik (MONITOR, WG 35, WG 36, WG 40)

Division for Fishing Statistics and Databases
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Krai, 690091
Russia
E-mail: vladimir.kulik@tinro-center.ru

Ekaterina Kurilova (HD, SG-SciCom)

Khabarovsk branch of Russian Federal Research Institute
of Fisheries and Oceanography (VNIRO)
13-A Amursky Blvd.
Khabarovsk, 680028
Russia
E-mail: katy_k07@mail.ru

Anna Kurnosova (Vazhova) (SG-ECOP)

Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Krai, 690091
Russia
E-mail: anna.vazhova@gmail.com

Elena Maximovna Latkovskaya (MEQ)

Environment Studies and Human Impact Monitoring
Sakhalin Research Institute of Fisheries and Oceanography
(SakhNIRO)
196 Komsomolskaya St.
Yuzhno-Sakhalinsk, 693023
Russia
E-mail: elena-sazon02@yandex.ru

Vyacheslav B. Lobanov (FUTURE SSC, MONITOR, POC, AP-NPCOOS, AP-CREAMS, WG 35) AP-CREAMS Co-Chair

V.I. Il'ichev Pacific Oceanological Institute (POI)
FEB RAS
43 Baltiyskaya St.
Vladivostok, Primorsky Krai, 690041
Russia
E-mail: lobanov@poi.dvo.ru

Georgiy S. Moiseenko (TCODE)

Satellite Monitoring Department
Russian Federal Research Institute of Fisheries and
Oceanography (VNIRO)
17 V. Krasnoselskaya St.
Moscow, 107140
Russia
E-mail: georgem@vniro.ru

Tatiana V. Morozova (S-HAB)

National Scientific Center of Marine Biology, FEB RAS
17 Palchevskogo St.
Vladivostok, Primorsky Krai, 690041
Russia
E-mail: tatiana_morozova@mail.ru

Vladimir V. Napazakov (WG 37)

Laboratory for Fish Forage Base
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Krai, 690091
Russia
E-mail: vladimir.napazakov@tinro-center.ru

Alexei M. Orlov (BIO, WG 47)

Laboratory of Sea Fishes of the Russian Far East
Russian Federal Research Institute of Fisheries and
Oceanography (VNIRO)
17 V. Krasnoselskaya St.
Moscow, 107140
Russia
E-mail: orlov@vniro.ru

Tatiana Yu. Orlova (S-HAB)

Laboratory of Marine Microbiota
National Scientific Center of Marine Biology, FEB RAS
17 Palchevskogo St.
Vladivostok, Primorsky Krai, 690041
Russia
E-mail: torlova06@mail.ru

Sergey Prants (WG 38)

Department of the Ocean and Atmosphere Physics
V.I. Il'ichev Pacific Oceanological Institute (POI)
FEB RAS
43 Baltiyskaya St.
Vladivostok, 690041
Russia
E-mail: prants@poi.dvo.ru

**Igor I. Shevchenko (F&A, SB, TCODE)
SB Vice-Chair**

Department of Information Technology
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690950
Russia
E-mail: igor@tinro.ru

**Vladimir M. Shulkin (WG 35)
ex-officio, represents NOWPAP**
Pacific Geographical Institute, FEB RAS
7 Radio St.
Vladivostok, Primorsky Kray, 690041
Russia
E-mail: shulkin@tig.dvo.ru

Vjatcheslav P. Shuntov (S-MBM)
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690950
Russia
E-mail: interdept@tinro-center.ru

Mikhail Simokon (S-HAB)
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690091
Russia
E-mail: mikhail.simokon@tinro-center.ru

Anna Skvortsova (HD, SG-SciCom)
Pacific branch of VNIRO (“TINRO”)
4, Shevchenko Alley
Vladivostok, Primorsky Kray, 690090
Russia
E-mail: anna.skvortsova@tinro-center.ru

Aleksei Somov (WG 44)
Laboratory of Applied Biocenology
Pacific branch of Russian Federal Research Institute of
Fisheries and Oceanography VNIRO (“TINRO”)
4 Shevchenko alley
Vladivostok, Primorsky region
Russia 690091
E-mail: alekseysomoff@gmail.com

Mikhail A. Stepanenko (FIS)
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690091
Russia

E-mail: mikhail.stepanenko@tinro-center.ru

Pavel Ya. Tishchenko (S-CC, AP-CREAMS, WG 46)
Head, Hydrochemistry Laboratory
V.I. Il'ichev Pacific Oceanological Institute (POI)
FEB RAS
43 Baltiyskaya St.
Vladivostok, Primorsky Kray, 690041
Russia
E-mail: tpavel@poi.dvo.ru
Olga O. Trusenkova (WG 38)
Laboratory of Physical Oceanography
V.I. Il'ichev Pacific Oceanological Institute (POI)
FEB RAS
43 Baltiyskaya St.
Vladivostok, Primorsky Kray, 690041
Russia
E-mail: troliia@poi.dvo.ru

Elena I. Ustinova (POC, WG 38)
Laboratory of Fisheries Oceanography
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, Primorsky Kray, 690091
Russia
E-mail: eustinova@mail.ru

Ekterina Verevkina (SG-SciCom)
Khabarovsk branch of Russian Federal Research Institute
of Fisheries and Oceanography (VNIRO)
13-A Amursky Blvd.
Khabarovsk, Russia 680017
E-mail: verevkina@khabarovsk.vniro.ru

Andrey Vinnikov (S-MBM)
Marine Programs
Marine Certification LLC
1 Vasilisy Kozhinoy St.
Moscow, 121096
Russia
E-mail: andrey.vinnikov@marcert.ru

**Yury I. Zuenko (POC, S-CCME, AP-CREAMS, WG 35,
WG 40, WG 44, SG-UNDOS)**
POC Vice-Chair, WG 44 Co-Chair
Fisheries Oceanography
Pacific branch of VNIRO (“TINRO”)
4 Shevchenko Alley
Vladivostok, 690091
Russia
E-mail: zuenko_yury@hotmail.com

Membership – 2021

Spain

Lidia Yebra Mora (WG 37)
ex-officio, represents ICES
Centro Oceanográfico de Málaga
Instituto Español de Oceanografía
Puerto Pesquero s/n
Fuengirola, Málaga, 29640
Spain
E-mail: lidia.yebra@ieo.es

UK

Clare Ostle (MONITOR)
ex officio, represents CPR
The Marine Biological Association
The Laboratory, Citadel Hill,
Plymouth, PL1 2PB
UK
E-mail: claost@mba.ac.uk

USA

Simone Alin (S-CC)
Pacific Marine Environmental Laboratory (PMEL), NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: simone.r.alin@noaa.gov

Lihini Aluwihare (WG 46)
Scripps Institution of Oceanography
University of California San Diego
9500 Gilman Drive
San Diego, CA, 92093-0244
U.S.A.
E-mail: laluwihare@ucsd.edu

Amy Baco-Taylor (WG-47)
Florida State University
1011 Academic Way
Tallahassee, FL, 32306
U.S.A.
E-mail: abacotaylor@fsu.edu

Matthew Baker (WG 35, WG 43, WG 44)
North Pacific Research Board (NPRB)
1007 West Third Ave., Suite 100
Anchorage, AK, 99501
U.S.A.
E-mail: Matthew.Baker@nprb.org

**Jack A. Barth (GC, MONITOR, AP-NPCOOS,
SG-SciCom)**
College of Earth, Ocean, and Atmospheric Sciences
(CEOAS)
Oregon State University
Corvallis, OR, 97331-5503
U.S.A.
E-mail: jack.barth@oregonstate.edu

Hongsheng Bi (WG-48)
WG-48 Co-Chair
University of Maryland Center for Environmental Science
146 William St
Solomons, MD, 20688
U.S.A.
E-mail: hbi@umces.edu

Adam Bloomquist (F&A)
Office of Ocean and Polar Affairs
Department of State
2201 C St. Northwest
Washington, DC, 20520
U.S.A.
E-mail: BloomquistA@state.gov

Steven J. Bograd (SB, FUTURE SSC, POC, WG 35, SG-ECOP, SG-PICES-APN, SG-UNDOS)

FUTURE SSC Co-Chair

SG-UNDOS PICES Co-Chair

Environmental Research Division

Southwest Fisheries Science Center, NMFS, NOAA

99 Pacific St.

Monterey, CA, 93940

U.S.A.

E-mail: steven.bograd@noaa.gov

Nicholas A. Bond (WG 35)

Joint Institute for the Study of Atmosphere and Ocean

(JISAO)

University of Washington

P.O. Box 354925

Seattle, WA, 98195-4925

U.S.A.

E-mail: nicholas.bond@noaa.gov

Noelle M. Bowlin (WG 43)

Fisheries Resources Division

Southwest Fisheries Science Center, NMFS, NOAA

8901 La Jolla Shores Drive

La Jolla, CA, 92037-1508

U.S.A.

E-mail: noelle.bowlin@noaa.gov

Annalisa Bracco (WG 38)

WG 38 Co-Chair

Program Ocean Science and Engineering

Georgia Institute of Technology

311 Ferst Dr.

Atlanta, GA, 30332-0340

U.S.A.

E-mail: abbracco@gatech.edu

Antonietta Capotondi (WG 40)

WG 40 Co-Chair (CLIVAR)

CIRES

University of Colorado

325 Broadway

Boulder, CO, 80305

U.S.A.

E-mail: Antonietta.Capotondi@noaa.gov

William P. Cochlan (S-HAB)

Estuary and Ocean Science Center

San Francisco State University

3150 Paradise Dr.

Tiburon, CA, 94920-1205

U.S.A.

E-mail: cochlan@sfsu.edu

Lee W. Cooper (WG 44)

Chesapeake Biological Laboratory

University of Maryland Center for Environmental Science

146 Williams St.

PO Box 38

Solomons, MD, 20688

U.S.A.

E-mail: cooper@umces.edu

Keith R. Criddle (HD, WG 35)

Juneau Center for Fisheries and Ocean Science

University of Alaska Fairbanks

17101 Pt. Lena Loop Rd.

Juneau, AK, 99801

U.S.A.

E-mail: kcriddle@alaska.edu

Enrique N. Curchitser (GC)

PICES Chair

Environmental Sciences/Institute of Marine and Coastal

Sciences

Rutgers University

14 College Farm Rd.

New Brunswick, NJ, 08901

U.S.A.

E-mail: enrique@marine.rutgers.edu

Raychelle Daniel (MONITOR, WG 44)

The Pew Charitable Trusts

901 E St. NW

Washington, DC, 20004

U.S.A.

E-mail: rdaniel@pewtrusts.org

Jeanette Davis (AP-NIS)

National Oceanic and Atmospheric Administration (NOAA)

1315 East-West Highway

Silver Spring, MD, 20910-3282

U.S.A.

E-mail: jeanette.davis@noaa.gov

Emanuele Di Lorenzo (SB, FUTURE SSC, POC, WG 40, SG-UNDOS)

POC Chair

Program in Ocean Science and Engineering

Georgia Institute of Technology

311 Ferst Dr.

Atlanta, GA, 30332

U.S.A.

E-mail: edl@gatech.edu

Andrew G. Dickson (S-CC)

Scripps Institution of Oceanography, UCSD

9500 Gilman Dr.

La Jolla, CA, 92093-0244

U.S.A.

E-mail: adickson@ucsd.edu

Lisa B. Eisner (MONITOR, WG 44)

MONITOR Vice-Chair

TSMRI/Auke Bay Laboratories

Alaska Fisheries Science Center, NMFS, NOAA

7600 Sand Point Way NE

Seattle, WA, 98115

U.S.A.

E-mail: lisa.eisner@noaa.gov

Membership – 2021

Richard A. Feely (S-CC)

Ocean Climate Research Division
Pacific Marine Environmental Laboratory (PMEL), NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: Richard.A.Feely@noaa.gov

Ron Felthoven (HD)

Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115-6349
U.S.A.
E-mail: ron.felthoven@noaa.gov

Megan Ferguson (WG 44)

Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115-6349
U.S.A.
E-mail: megan.ferguson@noaa.gov

Jerome Fiechter (POC)

Ocean Sciences Department
University of California Santa Cruz
1156 High St.
Santa Cruz, CA, 95064
U.S.A.
E-mail: fiechter@ucsc.edu

Alexis Dal Fischer (WG 48)

Northwest Fisheries Science Center, NMFS, NOAA
2725 Montlake Blvd E
Seattle, WA, 98112
U.S.A.
E-mail: alexis.fischer@noaa.gov

Jeanette C. Gann (TCODE, WG 35)

Ecosystem Monitoring and Assessment Alaska Fisheries
Science Center, NMFS, NOAA
17101 Pt. Lena Loop Rd.
Juneau, AK, 99801
U.S.A.
E-mail: jeanette.gann@noaa.gov

Hernan Eduardo Garcia (S-CC, TCODE)

National Centers for Environmental Information (NCEI)
NOAA
1315 East West Hwy, SSMC-3
Silver Spring, MD, 20910-3282
U.S.A.
E-mail: Hernan.Garcia@noaa.gov

Taylor Goelz (SG-ECOP)

The Aspen Institute
2300 N Street, NW
Washington, DC, 20037
U.S.A.
E-mail: taylorgoelz@gmail.com

Samuel E. Georgian (WG 47)

Marine Conservation Institute
1914 N 34th St.
Seattle, WA, 98103
U.S.A.
E-mail: samuel.georgian@marine-conservation.org

Burke Hales (S-CC)

College of Oceanic and Atmospheric Sciences (COAS)
Oregon State University
104 Ocean Admin. Bldg.
Corvallis, OR, 97331
U.S.A.
E-mail: bhales@coas.oregonstate.edu

Alan C. Haynie (S-CCME)

Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: Alan.Haynie@noaa.gov

Elliott Lee Hazen (S-MBM, WG 36)

Environmental Research Division
Southwest Fisheries Science Center, NMFS, NOAA
99 Pacific St., Suite 255A
Monterey, CA, 93940
U.S.A.
E-mail: elliot.hazen@noaa.gov

Anne B. Hollowed (S-CCME)

Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115-6349
U.S.A.
E-mail: Anne.Hollowed@noaa.gov

Kirstin Kari Holsman (S-CCME, WG 44, SG-UNDOS)

S-CCME Co-Chair
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: kirstin.holsman@noaa.gov

Russell R. Hopcroft (WG 37)

Institute of Marine Science
University of Alaska
P.O. Box 757220
Fairbanks, AK, 99775
U.S.A.
E-mail: rrhopcroft@alaska.edu

Mary Hunsicker (WG 36)

WG 36 Co-Chair
Northwest Fisheries Science Center, NMFS, NOAA
Hatfield Marine Science Center
2032 S. OSU Dr.
Newport, OR, 97365
U.S.A.
E-mail: Mary.Hunsicker@noaa.gov

Henry P. Huntington (WG 44)

Ocean Conservancy
23834 The Clearing Dr.
Eagle River, AK, 99577
U.S.A.
E-mail: henryphuntington@gmail.com

Katrin Iken (WG 44)

College of Fisheries and Ocean Sciences
University of Alaska Fairbanks
2150 Koyukuk Dr.
Fairbanks, AK, 99775
U.S.A.
E-mail: kbiken@alaska.edu

M. Debora Iglesias-Rodriguez (BIO)

Ecology, Evolution and Marine Biology
University of California, Santa Barbara
Santa Barbara, CA, 93106
U.S.A.
E-mail: iglesias@lifesci.ucsb.edu

Kym Corporon Jacobson (MONITOR)

Fish Ecology
Northwest Fisheries Science Center, NMFS, NOAA
Hatfield Marine Science Center
2030 SE Marine Science Dr.
Newport, OR, 97365
U.S.A.
E-mail: kym.jacobson@noaa.gov

Michael Jacox (WG 40)

WG 40 PICES Co-Chair
Environmental Research Division
Southwest Fisheries Science Center, NOAA
99 Pacific St., Suite 255A
Monterey, CA, 93940
U.S.A.
E-mail: michael.jacox@noaa.gov

Sunny Jardine (HD)

School of Marine and Environmental Affairs
University of Washington
3707 Brooklyn Ave NE
Seattle WA, 98105
U.S.A.
E-mail: jardine@uw.edu

Mellisa Johnson (WG 44)

Bering Sea Elders Group
P.O. Box 240943
Anchorage, AK, 99524-0943
U.S.A.
E-mail: director@beringseaelders.org

Isaac C. Kaplan (WG 43)

Northwest Fisheries Science Center, NMFS, NOAA
2725 Montlake Blvd. E
Seattle, WA, 98112
U.S.A.
E-mail: isaac.kaplan@noaa.gov

Stephen Kasperski (WG 35)

Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: stephen.kasperski@noaa.gov

Julie E. Keister (BIO)

School of Oceanography
University of Washington
Box 357940
Seattle, WA, 98195
U.S.A.
E-mail: jkeister@u.washington.edu

David G. Kimmel (BIO)

Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: david.kimmel@noaa.gov

Alexander Kozyr (S-CC)

S-CC Co-Chair
National Centers for Environmental Information, NOAA
1315 East-West Highway
Silver Spring, MD, 20910-3282
U.S.A.
E-mail: alex.kozyr@noaa.gov

Kathy Kuletz (WG 44)

Migratory Bird Management
U.S. Fish and Wildlife Service
1011 E. Tudor Rd.
Anchorage, AK, 99503
U.S.A.
E-mail: kathy_kuletz@fws.gov

Hannah Lachance (SG-ECOP, SG-SciCom)

ECS in support of NOAA Fisheries
1315 East-West Hwy
Silver Spring, MD, 20910
U.S.A.
E-mail: hannah.lachance@noaa.gov

Carol Ladd (WG 38)

Pacific Marine Environmental Laboratory (PMEL), NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
(1-206) 526-6024
E-mail: Carol.Ladd@noaa.gov

Dan Lew (WG 41)

WG 41 Co-Chair
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: Dan.Lew@noaa.gov

Membership – 2021

Kirsten Leong (WG 41)

Pacific Islands Fisheries Science Center, NOAA
1845 Wasp Blvd.
Honolulu, HI, 96818
U.S.A.
E-mail: kirsten.leong@noaa.gov

Steve Lindley (FIS)

Southwest Fisheries Science Center, NOAA
110 McAllister Way
Santa Cruz, CA, 95060
U.S.A.
E-mail: steve.lindley@noaa.gov

Hui Liu (WG 37)

TAMU Galveston Marine Biology
Texas A&M University at Galveston
P.O. Box 1675
Galveston, TX, 77553
U.S.A.
E-mail: liuh@tamug.edu

Elizabeth A. Logerwell (FIS, WG 44)

WG 44 PICES Co-Chair
Resource Assessment and Conservation Engineering
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115-6349
U.S.A.
E-mail: Libby.Logerwell@noaa.gov

Jennifer M. Lynch (WG 42)

WG 42 Co-Chair
Center for Marine Debris Research
National Institute of Standards and Technology
41-202 Kalaniana'ole Hwy.
Waimanalo, HI, 96795
U.S.A.
E-mail: jennifer.lynch@nist.gov

Galen A. McKinley (WG 46)

Earth and Environmental Sciences
Columbia University/Lamont Doherty Earth Observatory
61 Route 9W
Palisades, NY, 10964-1707
U.S.A.
E-mail: mckinley@ldeo.columbia.edu

Franz J. Mueter (S-CCME)

College of Fisheries and Ocean Sciences
University of Alaska Fairbanks
17101 Pt. Lena Loop Rd.
Juneau, AK, 99801
U.S.A.
E-mail: fmueter@alaska.edu

Todd D. O'Brien (WG 37)

COPEPOD - Marine Ecosystems Division, NMFS, NOAA
1315 East-West Hwy., F/ST7
Silver Spring, MD, 20910
U.S.A.
E-mail: Todd.O'Brien@noaa.gov

Minling Pan (HD)

Pacific Islands Fisheries Science Center, NOAA
Daniel K. Inouye Regional Center
1845 Wasp Blvd.
Honolulu, HI, 96818
U.S.A.
E-mail: Minling.Pan@noaa.gov

Misty Peacock (S-HAB)

Salish Sea Research Center
Northwest Indian College
2522 Kwina Rd.
Bellingham, WA, 98226
U.S.A.
E-mail: mpeacock@nwc.edu

Rolf R. Ream (S-MBM)

Marine Mammal Laboratory
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: rolf.ream@noaa.gov

Ryan R. Rykaczewski (FUTURE SSC, AP-CREAMS, WG 40, WG 43)

WG 40 CLIVAR Co-Chair
WG 43 PICES Co-Chair
Pacific Islands Fisheries Science Center, NMFS, NOAA
1845 Wasp Blvd.
Honolulu, HI, 96818-5007
U.S.A.
E-mail: ryan.rykaczewski@noaa.gov

Irina Rypina (WG 38)

Physical Oceanography Department
Woods Hole Oceanographic Institution (WHOI)
266 Woods Hole Rd., MS#21
Woods Hole, MA, 02543
U.S.A.
E-mail: irypina@whoi.edu

Matthew Savoca (WG 42, SG-ECOP)

Department of Biology, Hopkins Marine Station
Stanford University
120 Ocean View Blvd.
Pacific Grove, CA, 93950
U.S.A.
E-mail: msavoca13@gmail.com

Erin Vera Satterthwaite (SG-ECOP, SG-UNDOS) SG-ECOP Chair

California Sea Grant/Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Dr.
La Jolla, CA 92093-0232
U.S.A.
E-mail: esatterthwaite@ucsd.edu

Michael P. Seki (F&A, GC)
Pacific Islands Fisheries Science Center, NOAA
Daniel K. Inouye Regional Center
1845 Wasp Blvd.
Honolulu, HI, 96818
U.S.A.
E-mail: Michael.Seki@noaa.gov

Samantha Siedlecki (S-CC, WG 40)
Marine Sciences
University of Connecticut
1080 Shennecossett Rd.
Groton, CT, 06340
U.S.A.
E-mail: samantha.siedlecki@uconn.edu

Staci Simonich (MEQ)
Department of Environmental and Molecular Toxicology
Oregon State University
1007 Ag and Life Science Bldg.
Corvallis, OR, 97331-7301
U.S.A.
E-mail: staci.simonich@oregonstate.edu

Paul Spencer (WG 45)
WG 45 Co-Chair
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA
U.S.A. 98115
E-mail: paul.spencer@noaa.gov

Diana Lynn Stram (WG 44)
North Pacific Fishery Management Council
605 West 4th Ave.
Anchorage, AK, 99501
U.S.A.
E-mail: diana.stram@noaa.gov

William J. Sydeman (S-MBM)
Farallon Institute
Suite Q, 101 H St.
Petaluma, CA, 94952
U.S.A.
E-mail: wsydeman@faralloninstitute.org

Vera L. Trainer (SB, S-HAB, SG-SciCom, SG-ECOP, SG-UNDOS)
SB Chair
Northwest Fisheries Science Center, NMFS, NOAA
2725 Montlake Blvd. E
Seattle, WA, 98112
U.S.A.
E-mail: Vera.L.Trainer@noaa.gov

Amy V. Uhrin (WG 42)
National Oceanic and Atmospheric Administration (NOAA)
Marine Debris Program
1305 East-West Highway, SSMC4

Silver Spring, MD, 20910
U.S.A.
E-mail: amy.uhrin@noaa.gov

Kristy Wallmo (WG 41)
National Oceanic and Atmospheric Administration (NOAA)
1315 East West Hwy.
Silver Spring, MD, 20910
U.S.A.
E-mail: kristy.wallmo@noaa.gov

Mark L. Wells (S-HAB)
S-HAB Co-Chair
School of Marine Sciences
University of Maine
5741 Libby Hall
Orono, ME, 04469
U.S.A.
E-mail: mlwells@maine.edu

Cisco Werner (S-CCME)
National Oceanic and Atmospheric Administration (NOAA)
1315 East West Hwy.
Silver Spring, MD, 20910
U.S.A.
E-mail: cisco.werner@noaa.gov

Sarah Pence Wise (WG 44)
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: sarah.wise@noaa.gov

Phoebe Woodworth-Jefcoats (S-CCME, SG-SciCom)
Pacific Islands Fisheries Science Center, NOAA
Daniel K. Inouye Regional Center
1845 Wasp Blvd.
Honolulu, HI, 96818
U.S.A.
E-mail: phoebe.woodworth-jefcoats@noaa.gov

Gina M. Ylitalo (MEQ)
Environmental Conservation Division
Northwest Fisheries Science Center, NMFS, NOAA
2725 Montlake Blvd E
Seattle, WA, 98112-2097
U.S.A.
E-mail: Gina.Ylitalo@noaa.gov

Stephani G. Zador (WG 35)
Resource Ecology and Ecosystem Management
Alaska Fisheries Science Center, NMFS, NOAA
7600 Sand Point Way NE
Seattle, WA, 98115
U.S.A.
E-mail: stephani.zador@noaa.gov