

PROGRAM

13 November	
09:00-09:30	Registration
Opening Session	
09:30-10:00	Introduction of Guests and Leaders Hyeon-Ok Shin, Chairman of Local Organizing Committee of AFAS2018, South Korea
	Welcome Address Moonsoo Heo, Dean of College of Ocean Sciences, Jeju National University, South Korea
	Welcome Address Hyun-Seok Sin, President, Korea Fisheries Resource Agency, South Korea
	Chairman's Address Yoshinori Miyamoto, Chairman of AFAS2018
Session I (Invited Lecture) Chair Hyeon-Ok Shin, Co-Chair Yoshinori Miyamoto	
10:00-10:40	SS-1 Alternate platforms for acoustic surveys: gliders and echosounders °John K. Horne
10:40-11:20	SS-2 Tracking fish from freshwaters to the sea in large rivers: technologies and issues across spatial scales and ecological considerations °R. Allen Curry, Sam Andrews, Amanda Babin, Ryan Carrow, Emily Corey, Rick Cunjak, Mark Gautreau, Michelle Gray, Jani Helminen, Tommi Linnansaari, David Roth, Kurt Samway, and Gordon Yamazaki
11:20-12:00	General Meeting of Asian Fisheries Acoustics Society, AFAS2018
12:00-13:30	Lunch
Session II (1.SGAT) Chair Yasushi Nishimori, Co-Chair Doo-Jin Hwang	
13:30-13:45	AT-1 Long-range target detection and classification system for environmental monitoring at Marine Hydrokinetic (MHK) sites °Jae-Byung Jung, Timothy Acker, Asa Packer, and James Dawson

13:45-14:00	<p>AT-2</p> <p>Evaluation of new hydroacoustic system for fine scale assessment and mapping of aquatic vegetation and substrate classification</p> <p>°Timothy Acker, Eric Munday, and Brian Moore</p>
14:00-14:15	<p>AT-3</p> <p>Bioacoustic absorption spectroscopy of anchovies</p> <p>°Orest Diachok</p>
14:15-14:30	<p>AT-4</p> <p>Acoustic observation and quantification of underwater targets using quantified echo sounder Furuno FCV 628</p> <p>°Henry M. Manik, Yasushi Nishimori, Yoshihiro Nishiyama, Takuto Hazama, Akinori Kasai, Randi Firdaus, and Andi Yaodi NY</p>
14:30-14:45	<p>Coffee Break</p>
14:45-15:00	<p>AT-5</p> <p>Development of a low frequency broadband split-beam system and installation to a research vessel</p> <p>°Tomohito Imaizumi, Kohei Hasegawa, Tomohiko Matsuura, Koki Abe, Kouichi Sawada, Satoshi Misonoo, Masaaki Tadokoro, Takashi Kawaguchi, Takashi Matsumura, and Yoshihiro Nishiyama</p>
15:00-15:15	<p>AT-6</p> <p>Echoview and Echoexplore: the latest developments</p> <p>°Briony Hutton</p>
15:15-15:30	<p>AT-7</p> <p>An open and extensible net CDF4-based file format for sonar data</p> <p>Gavin J Macaulay and °Héctor Peña</p>
15:30-15:45	<p>AT-8</p> <p>School biomass estimates using digital omnidirectional fisheries sonar</p> <p>°Héctor Peña, Egil Ona, Gavin J Macaulay, Arne J Holmin, Sindre Vatnehol, and Atle Totland</p>
15:45-16:00	<p>AT-9</p> <p>Use of the AZFP -three case studies</p> <p>°Jan Buermans, Rhonda Reidy, Grace Saba, and Pedro R. De La Torre</p>
16:00-16:15	<p>Discussion of SGAT</p>
16:15-16:30	<p>Coffee Break</p>

Session III (2.SGTS) Chair Henry M. Manik, , Co-Chair Tomohito Imaizumi	
16:30-16:45	<p>TS-1</p> <p>Target strength measurements of tethered live Purpleback flying squid <i>Sthenoteuthis oualaniensis</i> at sea</p> <p>°Jun Zhang, Huan-huan Wang, Zuo-zhi Chen, Yong Tang, Ming-shuai Sun, and Yong-song Qiu</p>
16:45-17:00	<p>TS-2</p> <p>Broadband target strength measurements of pointhead flounder <i>Cleisthenes pinetorum</i>, a flatfish without a swim bladder</p> <p>°Naizheng Yan, Tohru Mukai, Jun Yamamoto, Naoyuki Kudo, and Kohei Hasegawa</p>
17:00-17:15	<p>TS-3</p> <p>Target strength at 200 kHz of Black Seabream (<i>Acanthopagrus schlegelii</i>), Parrotfish (<i>Oplegnathus fasciatus</i>) and Rock fish (<i>Sebastes schlegelii</i>) in accordance with their angle of swimming posture and fish length</p> <p>°Geunchang Park, Wooseok Oh, Euna Yoon, Inwoo Han, Doojin Hwang, and Kyoungsoon Lee</p>
17:15-17:30	Discussion of SGTS
17:30-18:00	Poster Session
18:00-20:30	Welcome Reception

14 November	
Session IV (3.SGES) Chair Kazushi Miyashita, Co-Chair Myounghee Kang	
09:00-09:15	<p>ES-1</p> <p>Hydroacoustics as a tool to examine the effects of protected areas on fish communities in Pasak Jolasid Reservoir, Thailand</p> <p>°Deeka Ratanachamnong</p>
09:15-09:30	<p>ES-2</p> <p>Echo survey off the coast of Yaizu, Suruga Bay, Japan</p> <p>°Kazuo Amakazu, Wataru Sato, Natsuki Yamamoto, Kenji Kato, Tetsutaro Aikawa, Shinya Oka, Hiroko Sakamoto, Toshifumi Hayashi, Fuxiang Hu, and Kenichi Kobayashi</p>

09:30-09:45	<p>ES-3</p> <p>Biomass survey example in Lake Akan and Panketo by using output data from conventional echo sounder</p> <p>°Yoshihiro Nishiyama, Daisuke Nishikubo, Akinori Kasai, Miyuki Nakajima, Syuichi Mano, Takayuki Honma, and Hajime Oomori</p>
09:45-10:00	<p>ES-4</p> <p>Case study on vessel speed condition for acoustic data collecting by using output data from conventional echo sounder</p> <p>°Takuto Hazama, Yoshihiro Nishiyama, and Atsushi Nagamoto</p>
10:00-10:15	<p>ES-5</p> <p>Density estimation verification of Antarctic krill (<i>Euphausia superba</i>) around South Shetland using the 2-dB difference method</p> <p>°Inwoo Han, Seokgwon Choi, Sangdeuk Chung, Doohae An, and Kyoungsoon Lee</p>
10:15-10:30	<p>Coffee Break</p>
10:30-10:45	<p>ES-6</p> <p>Acoustic evaluation and gear designing on separating sakura shrimp (<i>Sergia lucens</i>) from bycatch fish</p> <p>°Jen-Ming Liu and Wan-Yu Kao</p>
10:45-11:00	<p>ES-7</p> <p>Hydroacoustic detection of the spatial and temporal distribution of Chinese sturgeon (<i>Acipenser sinensis</i>) below the Gezhouba Dam, Yangtze River, China</p> <p>°Junyi Li, Hui Zhang, Jinming Wu, Hao Du, Chengyou Wang, and Qiwei Wei</p>
11:00-11:15	<p>ES-8</p> <p>Evaluating the fish aggregation effect of wind turbine facilities by using scientific echosounder in Miaoli, Taiwan</p> <p>°Jia-Rong Lin, Hsueh-Jung Lu, Shih-Hsuan Sun, and Jing-Yi Chen</p>
11:15-11:30	<p>ES-9</p> <p>Assessment and status of fisheries assets underwater using multibeam echo sounder technologies approach with 4D analysis and visualisation</p> <p>°Lenny Sharinee Sakai and Razak Zakariya</p>

11:30-11:45	<p>ES-10</p> <p>Biomass and distribution of Antarctic krill off the South Orkney Islands based on acoustic survey</p> <p>°Yang Yang, Teng Wang, Shujie Wan, Jianfeng Tong, Liuxiong Xu, and Guoping Zhu</p>
11:45-12:00	<p>ES-11</p> <p>Fish detection around artificial reefs using acoustic survey in the coastal area, Korea</p> <p>°Doo-Jin Hwang, Eun-A Yoon, Eunbi Min, Yoo-Won Lee, Young-Jae Shin, Yong-Suk Choi, and Byung-Ho Yi</p>
12:00-12:15	Discussion of SGES
12:15-13:30	Lunch
Session V (4.SGAA) Chair Yong Tang, Co-Chair Keiichi Uchida	
13:30-13:45	<p>AA-1</p> <p>Characterization of the fish distribution around set-net by means of quantitative echo sounder and moored echo sounder</p> <p>°Yanhui Zhu, Yuka Iwahara, Kenji Minami, Kentaro Oda, Koichi Hidaka, Osamu Hoson, Kouji Morishita, Sentaro Tsuru, Masahito Hirota, Hokuto Shirakawa, and Kazushi Miyashita</p>
13:45-14:00	<p>AA-2</p> <p>Behavior of the bluefin tuna juveniles in the large scale set net</p> <p>°Akari Ikeda, Keiichi Uchida, Yuki Shimozaki, Yoshinori Miyamoto, Hideki Noro, Yuuki Tanaka, Aki Miyagi, and Seiji Akiyama</p>
14:00-14:15	<p>AA-3</p> <p>Classification of various types of seaweed beds by statistical analysis of acoustic data from a scientific echosounder</p> <p>°Huamei Shao, Setuo Kiyomoto, Yohei Kawauchi, Tatsuru Kadoda, Masahiro Nakagawa, and Taku Yoshimura</p>
14:15-14:30	<p>AA-4</p> <p>Tracking of <i>Coregonus peled</i> in a large scale set net using ultrasonic biotelemetry</p> <p>°Jing Liu, Keiichi Uchida, Yong Tang, Yoshinori Miyamoto, and Leiming Yin</p>

14:30-14:45	<p>AA-5</p> <p>Movement range and behavior characteristics of gray rockfish (<i>Sebastes schlegeli</i>) and flounder (<i>Paralichthys olivaceus</i>) by acoustic telemetry in Byeonsan Peninsular, Korea</p> <p>°Hyeon-Ok Shin, Min-A Heo, Gyeom Heo, and Doo-Jin Hwang</p>
14:45-15:00	<p>Coffee Break</p>
15:00-15:15	<p>AA-6</p> <p><i>Euphausia superba</i> swarm characteristics in the Antarctic Cooperation Sea by the echogram of acoustic survey</p> <p>°Teng Wang, Peng Zhang, and Liuxiong Xu</p>
15:15-15:30	<p>AA-7</p> <p>Expansion of tracking area using fishing boats in survey of skipjack</p> <p>°Saki Asai, Keiichi Uchida, Kazushi Miyashita, Nobuaki Arai, Hiromichi Mitamura, Takashi Kitagawa, Hokuto Shirakawa, Yoshinori Miyamoto, and Toyoki Sasakura</p>
15:30-15:45	<p>AA-8</p> <p>Hydroacoustic studies on the endangered Chinese sturgeon <i>Acipenser sinensis</i>: from basics to applications</p> <p>°Hui Zhang, Myounghee Kang, Junyi Li, Chengyou Wang, and Qiwei Wei</p>
15:45-16:00	<p>AA-9</p> <p>Multifaceted visualization on artificial reef in the water off Jeju Island, South Korea</p> <p>°Myounghee Kang, Eun-A Yoon, Eunbi Min, Kyoungsoon Lee, Woo-Seok Oh, Geunchang Park, Young-Jae Shin, Yong-Suk Choi, Byung-Ho Yi, and Doojin Hwang</p>
16:00-16:15	<p>AA-10</p> <p>Detecting and identifying the natural fish habitat using multibeam echo sounder: <i>focusing on TERANAS</i></p> <p>°Razak Zakariya and Lenny Sharinee Sakai</p>
16:15-16:30	<p>Coffee Break</p>
16:30-16:45	<p>Discussion of SGAA</p>

Session VI (5. SGEM) Chair Tohru Mukai, Co-Chair Kazuo Amakasu	
16:45-17:00	EM-1 Measurement and analysis of zooplankton backscattering strength using moored and mobile Acoustic Doppler Current Profiler (ADCP) instruments °Angga Dwinovantyo, Henry M. Manik, Tri Prartono, Susilohadi Susilohadi, and Tohru Mukai
17:00-17:15	EM-2 Acoustical equipment on the fishery research vessel SONGHANG of Shanghai Ocean University and noise interference test at sea °Jianfeng Tong, Wei Sheng, and Jin Zhang
17:15-17:30	Discussion of SGEM
Session VII (6. Others)	
17:30-17:45	OS-1 Development of the collecting treatment system and resources technology for <i>Sagassum horneri</i> °Kyoungsoon Lee, Yongbeom Pyeon, Wooseok Oh, Inwoo Han, and Geunchang Park
17:45-18:00	OS-2 An advanced tool for scientist (SeapiX) °Sung-Doo Hong
18:00-18:15	Discussion of Others
18:15-18:30	Closing Session
18:30-20:30	Banquet

Poster Session	
PS-1	Comparison of fish aggregations by artificial reefs using scuba diving and single-frequency echo sounder detection °Ting-Chieh Huang, Hsueh-Jung Lu, Jia-Rong Lin, Shih-Hsuan Sun, and Jing-Yi Chen
PS-2	Wideband backscatter spectra (35-260 kHz) from species pelagic community in the Northern Humboldt Current System off Peru °Luis La Cruz, Rodolfo Cornejo, Adolfo Gonzales, and Ramiro Castillo

PS-3	Acoustic measurements of inshore Jellyfish near Hongyanhe Nuclear Power Station °Yuan-yuan Fu, Yong Tang, Wei Meng, Fu-yang Bi, and Jian-wen Li
PS-4	Measurement of the <i>Coregonus peled</i> and the <i>Coregonus autumnalis</i> TS by using the KRM model °Yang Sun, Yong Tang, Jinming Wang, Liming Yin, and Fuyang Bi
PS-5	Study on the fishery resources in the waters around Gwangyang Bay, Korea °Kyounghoon Lee, Heung-Yun Kim, and Ihn-sil Kwak
PS-6	Analysis on the marine organism's distribution in the cold water mass by using acoustics °Wooseok Oh, Insung Han, Ujin Ko, Geunchang Park, Inwoo Han, and Kyounghoon Lee
PS-7	A Study on fish aggregation device for bycatch reduction and fish shoal behavior using flow visualization analysis °Yongbeom Pyeon, Sungil Lee, Doonam Kim, Doohae An, and Kyounghoon Lee