

CURRICULUM VITAE: KYUNGSIK CHOI

Last updated August 2024

PERSONAL DATA



Position: Professor, Seoul National University

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Instagram: <https://www.instagram.com/tidalchoi/>

Nationality: Korean

Professional Specialization: marine geology, sedimentology, geomorphology, sequence stratigraphy, Quaternary stratigraphy, petroleum geology, paleopedology

Research Interests: tidal flats, tidal channels, salt marshes, rivers, estuaries, deltas, morphodynamics, sediment transport, fluvial-tidal transition zone, human-landscape interactions, coastal evolution, benthic ecosystem stability, heterolithic reservoir characterization

Biography: Dr. Kyungsik Choi is a professor in the School of Earth and Environmental Sciences at Seoul National University in Korea. Kyungsik received his B.Sc., M.Sc., and Ph.D. in marine geology and sedimentology from Seoul National University. After conducting postdoc research at Queen's University in Canada under the supervision of Prof. Bob Dalrymple, Kyungsik joined Korea National Oil Corporation for two years, where he conducted geological characterization of heterolithic siliciclastic reservoirs in Iraq, Iran, Vietnam, Kazakhstan, and Canada. Kyungsik returned to academia in 2007, when he took a tenure-track position at Chonnam National University (CNU), and later moved to Seoul National University (SNU) in 2012. His research focuses on tidal flats and rivers in marginal depositional systems such as estuaries and deltas spanning tropical to arctic regions. His research interests lie in predicting tide-dominated sedimentary facies and architecture through time and space by combining modern observation and outcrop measurement using an interdisciplinary approach with innovative tools such as high-precision RTK-GPS survey, UAV-based photogrammetry, and *in-situ* current and wave measurements as well as conventional cores and outcrop analysis. Kyungsik's extensive field campaigns in Myanmar, Svalbard, and Utah highlight non-linear interactions between tide, wave, river, and vegetation on the channel morphodynamics and bar architecture in the fluvial-tidal transition zone. Kyungsik's recent field research also explores the relationship between sedimentary processes and the benthic ecosystem stability, which might help evaluate ecosystem services, resilience to pollution, and blue

carbon potential of tidal flats. Kyungsik has published 54 peer-reviewed scientific papers in the various top-ranked international journals, including ‘Dalrymple and Choi (2007)’ in Earth-Science Reviews cited 1083 times, and a book entitled ‘The Tide-dominated Han River Delta’ by Elsevier. Kyungsik has been a member of SEPM since 1991 and has served the society as a Global SEPM Ambassador since 2014. Kyungsik is also a member of AAPG and IAS. Kyungsik has supervised ten graduate students for thesis and dissertations. Kyungsik received a citation from the Korean Government in 2012 for service in preparing classified government documents and technical presentations for CLCS (Commission on the Limits of the Continental Shelf) of the UN. Kyungsik has devoted his entire academic career to the sedimentological and morphodynamic characterization of the tide-influenced depositional systems with an extensive and repetitive field-based research in the challenging locations to predict better the spatio-temporal variability of facies and stratigraphic architecture in the systems, to reconstruct the evolution of the systems, and to evaluate natural and anthropogenic impacts on the systems during rapid global change.

Education and Outreach: Kyungsik has supervised 6 Ph.D. theses (2 as a committee member), 17 master theses (7 as a committee member), and 22 bachelor theses in Seoul National University (SNU) and Chonnam National University. The Ph.D. thesis completed by Dohyeong Kim won the best Ph.D. award of the College of Natural Sciences of SNU in the class of 2022. Currently, Kyungsik supervises four Ph.D. candidates. Each year, Kyungsik has taught two to three courses for undergraduates, including oceanography, marine geology, and sedimentology, and two to three classes for graduate students, including advanced tidal sedimentology, sequence stratigraphy and basin analysis. With a strong belief in field experiences to better understand the geomorphology and sedimentary processes of coastal environments, Kyungsik has been actively running field schools at least once a year for undergraduate students. Kyungsik has devoted himself to providing field experiences for graduate students with the numerous field campaigns not only in Korea but also in Myanmar (2014~2020), Svalbard (2015~2023), China (2019), Cambodia (2016), Philippines (2017), and Utah (2011~2014, 2018, 2024). Kyungsik has shared scientific knowledge with the public and industries by providing lectures and media interviews on science issues in plain language. In addition, Kyungsik has established an international partnership with Dagon University in Myanmar in 2015 and provided the Department of Geology in the university with lectures and field gears and trained the professors in the field in 2015 and 2016. In 2017, Kyungsik played a crucial role in building a partnership between Seoul National University and the Arctic University in Tromso in Norway for research in the Arctic. Kyungsik is currently serving for Sedimentary Geology as an editorial member since 2024 and Frontiers in Earth Science (Marine Geoscience) as an associate editor since 2021.

EDUCATION

B.Sc.	Seoul National University	1991	Oceanography
M.Sc.	Seoul National University	1994	Marine Geology
Ph.D.	Seoul National University	2001	Sedimentology, Marine Geology

POSITIONS HELD

1996.12-1997.12	General Secretary	Korean Society of Oceanography
2001.5-2001.7	Postdoctoral fellow	Korea Ocean Research and Development Institute
2001.8-2004.4	Postdoctoral fellow	Queen's University, Canada (Supervisor: Prof. Bob Dalrymple)
2004.6.28-2005.5.8	Postdoctoral fellow	Korea Institute of Geoscience and Mineral Resources
2005.5.9-2007.1.1	Assistant Manager	Korea National Oil Corporation
2007.1.1-2011.3.31	Assistant Professor	Chonnam National University
2008.4.1-2012.12.31	TTC Member	DSME E&R
2011.4.1-2012.8.31	Associate Professor	Chonnam National University
2012.9.1-2017.2.28	Assistant Professor	Seoul National University
2014.8.31-present	Global Ambassador	SEPM
2017.3.1-2024.8.31	Associate Professor	Seoul National University
2024.9.1-present	Professor	Seoul National University

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

SEPM (Society for Sedimentary Geology): Member, 1991 – present
Global Ambassador, 2014 – present
International Association of Sedimentologists (IAS): Member, 1991 – present
American Association of Petroleum Geologists (AAPG): Member, 1994 – present
Korean Society of Oceanography (KSO): Sustaining Member, 1997 – present
Geological Society of Korea (GSK): Member, 2009 – present
Korean Society of Quaternary Research (KOQUA): Member, 2010 – present
Korean Society of Petroleum Geology (KSPG): Member, 2008 – present

EDITORIAL BOARD MEMBER

Sedimentary Geology: Editorial Board, 2024.4 – present
Frontiers in Earth Science (Marine Geoscience): Associate Editor, 2021 – present
Ocean Science Journal: Associate Editor, 2013 – 2019

FELLOWSHIPS GRANTED

Predoctoral fellowship of the Korea Research Foundation (1997)
Postdoctoral fellowship of the Korea Science and Engineering Foundation (2001.8-2002.7)

CITATION

Ministry of Foreign Affairs and Trade (2012) for contributing to the preparation and presentation of documents submitted to the CLCS at the United Nations.

UNIVERSITY COURSES TAUGHT

2007.3 – 2012.8: Chonnam National University: Oceanography (1st year), Marine Geology (2nd year), Sedimentology (3rd year), Petroleum Geology (4th year), Advanced Tidal Sedimentology, Basin Analysis (graduate)

2012.9 – present: Seoul National University: Oceanography (1st year), Marine Geology (2nd year), Sedimentology (3rd year), Advanced Tidal Sedimentology, Basin analysis, Tidal Channel Morphodynamics, Sequence Stratigraphy (graduate)

GRADUATE STUDENTS ADVISED

KOO, Geunhyo MS 2010, now with SK Innovation

KIM, Mihee MS 2010

HONG, Changmin MS 2011

OH, Cheongrok MS 2014, now with National Police Agency

JO, Joohee MS 2016

JEON, Jihye MS 2016, now with Korea National Oil Corporation

BANG, Seolhui MS 2016

KIM, Dohyeong Ph.D. 2022, Best Ph.D. Award at SNU

HWANG, Yeonju Ph.D. 2023

BISSON, Luke MS 2024

JO, Joohee Ph.D. 2024

GRADUATE STUDENTS ADVISED AS A COMMITTEE MEMBER

LIM, Hangwi 2013 MS

KIM, Taewoo 2017 MS

Choo, Seungoh 2018 MS

Kim, Sunjoo 2019 MS

KIM, Hyejin 2020 Ph.D.

LEE, Jongmin 2022 Ph.D.

KIM, Suran 2024 MS

JUNG, Injin 2024 MS

SEO, Hosung 2024 MS

UNDERGRADUATE STUDENTS ADVISED

KOO, Kunhyo 2009-2010

KIM, Mihee 2009-2010

YOON, Heesoo 2010-2011
YOON, Taekyung 2010-2011
JUNG, Hyeran 2010-2011
HONG, Changmin 2008-2012
JUNG, Jaehoon 2010-2012
JO, Joohee 2010-2012
OH, Chungrok 2010-2014
PARK, Jiyoung 2011-2012
LEE, Junghoon 2011-2012
KO, Youngdae 2011-2012
CHOI, Junyoung 2011-2012
BAE, Sangeun 2013
JIN, Taein 2014-2015
SUK, Jungwoong 2014-2016
DZIKURROKHIM, Ridwan 2017-2018
GERALDINE, Maria Palacios Torres 2018
BUSHUEV, Esther 2018-2019
PHANTHOULAASA, Valaphone 2018-2020
YAJJU, Pradhan 2021-2022
KIM, Jongwon 2024

FIELD SCHOOL

2007 Kochang tidal flat (CNU) Oct. 27-29
2008 Ganghwa tidal flat (CNU) May 16-17
2008 Kochang tidal flat (CNU) Sep.18 (special strengthening competitiveness program)
2008 Yeochari tidal flat, sand bar (KSPG/KNOC) Oct. 29-30
2009 Kochang tidal flat (KBS) Environmental Special Program Sep. 8
2010 Jeju island Shipboard exercise (CNU) Apr. 1-2
2011 Utah field trip (CNU + DSME E&R) May 10-13
2011 Gomso Bay, Hampyung Bay, Saemangeum (KIGAM) Sep. 23-25
2013 Yeochari tidal flat (SNU) May14
2013 Ganghwa tidal flat (KNOC) Jun.15
2014 Yeochari tidal flat (SNU) May 15-16
2014 Kochang tidal flat (SNU) Nov. 19-20
2016 Yeochari tidal flat (SNU) May 6-7
2016 Yeochari tidal flat (SNU) Oct. 17
2017 Yeochari tidal flat (SNU) Apr. 25-26
2017 Yeochari tidal flat (SNU) Nov. 17-18
2018 Kochang tidal flat (SNU) Apr. 27-28
2019 Yeochari tidal flat (SNU) Nov.14-15
2022 Yeochari tidal flat (SNU) May. 16-17
2024 Nakdong river delta (SNU) Apr. 22-24

SHORT COURSES

- 2008 DSME E&R Oil School on Reservoir characterization, Oct.16-17
2013 KNOC Oil School on Stratigraphic reservoir characterization, May18-22
2015 Dagon University in Myanmar on Ocean Science, Jan. 26
2016 Natural Science College Science Camp at SNU on Coastal Environments, Aug. 3-4
2016 Siheung City School on Tidal Flats and Channels, Nov. 29

MEDIA APPEARANCES

1. KBS (Korea Broadcasting System) (2009) ‘Environment Special’. Moon and Life. Aired on Oct. 7.
[\(https://www.youtube.com/watch?v=mhNDoke6b60\)](https://www.youtube.com/watch?v=mhNDoke6b60)
2. EBS (Education Broadcasting Company) (2014) ‘Education Report ON’. Aired on Feb. 9.
(
3. NATURE (2015) Yellow Sea talks raise hopes for marine science. Vol. 528, 318 – 319.
[\(https://www.nature.com/articles/528318a\)](https://www.nature.com/articles/528318a)
4. JTBC (Jungang Broadcasting Company) (2019) ‘Spotlight’ special investigating programme. Cry of Arctic. Aired on Sep. 19.
(
5. JTBC (Jungang Broadcasting Company) (2020) ‘Spotlight’ special investigating programme. Mystery of Bill. Aired on Jul. 2.
6. KBS (Korea Broadcasting System) (2022) ‘KBS1 News 9’. Aired on Aug. 17.
[\(https://www.youtube.com/watch?v=hLFmxK9Tr8c\)](https://www.youtube.com/watch?v=hLFmxK9Tr8c)
7. KBS (Korea Broadcasting System) (2022) ‘KBS1 Window - Warning from Arctic’. Aired on Aug 23.
[\(https://www.youtube.com/watch?v=9pc7CDcjill\)](https://www.youtube.com/watch?v=9pc7CDcjill)
8. KBS (Korea Broadcasting System) (2022) ‘KBS1 News Square’. Aired on Sep. 3.
9. KBS (Korea Broadcasting System) (2024) ‘KBS1 News 9’. Aired on June 3.
[\(https://www.youtube.com/watch?v=G52PITYNq88&t=11s\)](https://www.youtube.com/watch?v=G52PITYNq88&t=11s)
10. TV Chosun (2024) ‘News 9’. Aired on June 4.
[\(https://www.youtube.com/watch?v=AgfabmSbkZo&t=351s\)](https://www.youtube.com/watch?v=AgfabmSbkZo&t=351s)
11. The Jungang (2024) Published on June 4
[\(https://www.joongang.co.kr/article/25253996\)](https://www.joongang.co.kr/article/25253996)
12. Hani (2024) Published on June 4
[\(https://www.hani.co.kr/arti/economy/economy_general/1143511.html\)](https://www.hani.co.kr/arti/economy/economy_general/1143511.html)
13. TV Chosun (2024) ‘News 9’. Aired on June 5
[\(https://www.youtube.com/watch?v=xj3ag6xBmNM\)](https://www.youtube.com/watch?v=xj3ag6xBmNM)
14. Hani (2024) Published on June 5
[\(https://www.hani.co.kr/arti/economy/economy_general/1143605.html\)](https://www.hani.co.kr/arti/economy/economy_general/1143605.html)
15. Hani (2024) Published on June 5
[\(https://www.hani.co.kr/arti/economy/economy_general/1143633.html\)](https://www.hani.co.kr/arti/economy/economy_general/1143633.html)
16. Hani (2024) Published on June 7 (News Briefing)

- (https://www.hani.co.kr/arti/society/society_general/1143861.html)
17. Hankyere21 (2024) Published on June 7
(https://h21.hani.co.kr/arti/politics/politics_general/55619.html)
 18. JTBC News 뉴스들어가혁 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=CzMqges95U8>)
 19. JTBC News 뉴스들어가혁 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=g8ctotYnP6w>)
 20. JTBC News 오대영라이브 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=w-2FB4oHj4&t=592s>)
 21. JTBC News 뉴스룸 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=kwRwDarZKt8>)
 22. MBC Radio 권순표 뉴스하이킥 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=2SgCaj3PWsM&t=4965s>)
 23. CBS Radio 박재홍의 한판승부 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=NHPqOQ-OUEI&t=801s>)
 24. SBS Radio 김태현의 정치쇼 (2024) Aired on June 10
(<https://www.youtube.com/watch?v=TNgJiIVbkGg>)
 25. MBC Radio 손에 잡히는 경제 (2024) Aired on June 10
(<https://www.youtube.com/watch?v=TJrzZDbbdXQ>)
 26. The Jungang (2024) published on June 10
(<https://www.joongang.co.kr/article/25255193>)
 27. Kukminilbo (2024) published on June 10
(<https://www.kmib.co.kr/article/view.asp?arcid=0020186595>)
 28. Hankukilbo (2024) published on June 10
(<https://m.hankookilbo.com/News/Read/A2024061010420004627>)
 29. SBS Biz 집중진단 (2024) Aired on June 12
(<https://www.youtube.com/watch?v=Qf4nKQhdd1E&t=11s>)
 30. MBC Newsdesk (2024) Aired on June 12
(<https://www.youtube.com/watch?v=59mY0OFcA0w>)
 31. MBC Newsdesk (2024) Aired on June 13
(https://www.youtube.com/watch?v=_kfBIty82P4)
 32. MTN 핫라인 5 (2024) Aired on June 13
(<https://www.youtube.com/watch?v=LMMRRbcP7xEU>)
 33. Hankyere TV 논썰 (2024) Aired on June 14
(<https://www.youtube.com/watch?v=i-UM5n2rL8o>)
 34. Hankookilbo (2024) published on June 14
(<https://www.hankookilbo.com/News/Read/A2024061214480000253>)
 35. Dongailbo (2024) published on June 14
(<https://www.donga.com/news/Politics/article/all/20240614/125437035/1>)
 36. OhmyTV (2024) Aired on June 14
(<https://www.youtube.com/watch?v=7Sb34J-mI2s&t=7925s>)
 37. MTN News (2024) published on June 14
(<https://news.mtn.co.kr/news-detail/2024061414332173263>)
 38. KBS Radio 2 열린토론 (2024) Aired on June 19
(<https://www.youtube.com/watch?v=ova4KRcDrk8>)

39. JTBC (2024) 뉴스룸 Aired on June 19
(<https://www.youtube.com/watch?v=Fg7ZsPqkktI>)
40. SBS Premium (2024) Videomug 귀에 빠종원 Aired on June 20
(<https://www.youtube.com/watch?v=LqnIFmb-VYc>)
41. Edaily TV (2024) Aired on June 21
(<https://www.youtube.com/watch?v=dWlavOO7aUE>)
42. MBC Straight (2024) Aired on July 14
(<https://www.youtube.com/watch?v=iPZOJcXYd2I>)

RESEARCH PUBLICATIONS (1995-2024)

(* corresponding author/IF: 2020 Impact Factor)

Citations **2941**, h-index **24**, i10-index **38** (as of August 27, 2024)

54. Bisson, L.S., **Choi, K.S.**, 2024. Climate control on the channel morphodynamics of the Sittaung River, Myanmar. **Scientific Reports** 14, 7524 (IF 4.6).
53. **Choi, K.S.**, Jo, J., Kim, D., Sohn, S., Bang, S., 2024. Morphodynamics of macrotidal channels in Korean tidal flats: implication for the role of monsoon precipitation and the stratigraphic architecture of tidal point bars. In: Finotello, A., Durkin, P.R., Sylvester, Z. (eds) Meandering Streamflows: Patterns and Processes across Landscape and Scales. **Geological Society of London Special publication vol. 540, 2023-113.**
52. Yoon, S.J., Hong, S., Lee, J., Lee, J., Kim, Y., Lee, M.J., Ryu, J., **Choi, K.S.**, Kwon, B.O., Hu, W., Wang, T., Khim, J.S., 2023. Historical trends of traditional, emerging, and halogenated polycyclic aromatic hydrocarbons recorded in core sediments from the coastal areas of the Yellow and Bohai seas. **Environmental International** 178, 108037 (IF: 13.3). **Citations: 7**
51. Kim, D., Jo, J., Nam, S.-I., **Choi, K.S.**, 2022. Morphodynamic evolution of paraglacial spit complexes on a tide-influenced Arctic fjord delta (Dicksonfjorden, Svalbard). **Marine Geology** 447, 106800 (IF: 3.548). **Citations: 5**
50. Kwon, I., Lee, C., Lee, J., Kim, B., Park, S.Y., Kim, J., Lee, J., Noh, J., Kwon, B.O., Son, S., Yoon, H.J., Nam, J.H., **Choi, K.S.**, Khim, J.S., 2022. The first national scale evaluation of total nitrogen stocks and burial rates of intertidal sediments along the entire coast of South Korea. **Science of the Total Environment** 827, 154320. (IF: 7.963). **Citations: 6**
49. Kim, D., Ko, J., Jo, J., Ryu, J., **Choi, K.S.**, 2022. Decoupling natural and man-made impacts on the morphologic and sedimentologic changes in the tidal flats, Saemangeum area, west coast of Korea: implications for benthic ecosystem stability. **Science of the Total Environment** 807, 151779. (IF: 7.963) **Citations: 7**
48. **Choi, K.S.**, Jo, J., Kim, D., 2021. Tidal and seasonal controls on the stratigraphic architecture of blind tidal channel deposits in the fluvial-tidal transition of the macrotidal Sittaung River estuary, Myanmar. **Sedimentary Geology** 426, 106029. (IF: 3.397) **Citations: 7**
47. Lee, J., Kim, B., Noh, J., Lee, C., Kwon, I., Kwon, B.O., Ryu, J., Park, J., Hong, S.,

Lee, S., Kim, S.G., Son, S., Yoon, H.J., Yim, J., Nam, J., **Choi, K.S.**, Khim, J.S., 2021. The first national scale evaluation of organic carbon stocks and sequestration rates of coastal sediments along the west, south and east coasts of South Korea. **Science of the Total Environment** 793, 148568. (IF: 7.963)

Citations: 40

46. Hwang, K., Lee, J., Kwon, I., Park, S.Y., Yoon, S.J., Lee, J., Kim, B., Kim, T., Kwon, B.O., Hong, S., Lee, M.J., Hu, W., Wang, T., **Choi, K.S.**, Ryu, J., Khim, J.S., 2021. Large-scale sediment toxicity assessment over the 15,000 km of coastline in the Yellow and Bohai seas, East Asia. **Science of the Total Environment** 792, 148371. (IF: 7.963) **Citations: 18**
45. Kim, D., Jo, J., **Choi, K.S.**, 2021. Role of rainfall-induced runoff discharge and human disturbance on the morphodynamics and sedimentation in the semienclosed macrotidal flats. **Marine Geology** 438, 106522. (IF: 3.548) **Citations: 11**
44. **Choi, K.S.**, Kim, D., Jo, J., 2020. Morphodynamic evolution of the macrotidal Sittaung River estuary, Myanmar: tidal versus seasonal controls. **Marine Geology** 430, 106367. (IF: 3.548) **Citations: 30**
43. Kim, D., Kwon, B., **Choi, K.S.**, 2020. Impact of derelict fishing gear on the seafloor integrity and benthic communities in the macrotidal flats, northern Gyeonggi Bay, west coast of Korea. **Science of the Total Environment** 745, 141168. (IF: 7.963) **Citations: 6**
42. Liu, P., Hu, W., Tian, K., Huang, B., Zhao, Y., Wang, X., Zhou, Y., Shi, B., Kwon, B.-O., **Choi, K.S.**, Ryu, J., Chen, Y., Wang, T., Khim, J.S., 2020. Accumulation and ecological risk of heavy metals in soil along the coastal areas of the Bohai Sea and the Yellow Sea: A comparative study of China and South Korea. **Environmental International** 137, 105519. (IF: 9.621) **Citations: 119**
41. Tian, K., Wu, Q., Liu, P., Hu, W., Huang, B., Shi, B., Zhou, Y., Kwon, B.-O., **Choi, K.S.**, Ryu, J., Khim, J.S., Wang, T., 2020. Ecological risk assessment of heavy metals in sediments and water from the coastal areas of the Bohai Sea and the Yellow Sea. **Environmental International** 136, 105512. (IF: 9.621) **Citations: 218**
40. Kim, S., Hong, S., Lee, J., Kim, T., Yoon, S.J., Lee, J., **Choi, K.S.**, Kwon, B.-O., Giesy, J.P., Khim, J.S., 2020. Long-term trends of persistent toxic substances and potential toxicities in sediments along the west coast of South Korea. **Marine Pollution Bulletin** 151, 110821. (IF: 5.553) **Citations: 12**
39. Kim, D., Jo, J., Kim, B., Ryu, J., **Choi, K.S.**, 2020. Influence of dike-induced morphologic and sedimentologic changes on the benthic ecosystem in the sheltered tidal flats, Saemangeum area, west coast of Korea. **Environmental Pollution** 257, 113507. (IF: 8.071) **Citations: 16**
38. Bae, H., Lee, J.-H., Song, S.J., Ryu, J., Noh, J., Kwon, B.O., **Choi, K.S.**, Khim, J.S., 2018. Spatiotemporal variations in macrofaunal assemblages linked to site-specific environmental factors in two contrasting nearshore habitats. **Environmental Pollution** 241, 596–606. (IF: 8.071) **Citations: 21**
37. Yim, J., Kwon, B.-O., Nam, J., Hwang, J.H., **Choi, K.S.**, Khim, J.S., 2018. Analysis of forty years long changes in coastal land use and land cover of the Yellow Sea: The gains or losses in ecosystem services. **Environmental Pollution** 241, 74–84. (IF: 8.071) **Citations: 70**
36. Bae, H., Lee, J.-H., Song, S.J., Park, J., Kwon, B.-O., Hong, S., Ryu, J., **Choi, K.S.**,

- Khim, J.S., 2017. Impacts of environmental and anthropogenic stresses on macrozoobenthic communities in Jinhae Bay, Korea. ***Chemosphere*** 171, 681–691. (IF: 7.086) **Citations: 28**
35. Jo, J.H., Choi, K.S., 2016. Morphodynamics and hydrodynamic controls on the stratigraphic architecture of intertidal compound dunes on the open-coast macrotidal flat in the northern Gyeonggi Bay, west coast of Korea. ***Journal of Sedimentary Research*** 86, 1103–1122. **Citations: 9**
34. Choi, K.S., Kim, D.H., 2016. Morphologic and hydrodynamic controls on the occurrence of tidal bundles in an open-coast macrotidal environment, northern Gyeonggi Bay, west coast of Korea. ***Sedimentary Geology*** 339, 68–82. **Citations: 19**
33. Cummings, D.I., Dalrymple, R.W., Choi, K.S., Jin, J.H., 2016. **The Tide-Dominated Han River Delta, Korea – Geomorphology, Sedimentology, and Stratigraphic Architecture.** Elsevier, Amsterdam. 376p. **Citations: 35**
32. Olariu, C., Steel, R.J., Olariu, M.I., Choi, K.S., 2015. Facies and architecture of unusual fluvial-tidal channels with inclined heterolithic strata: Campanian Neslen Formation, Utah, USA. In: Ashworth, P.J., Best, J.L., and Parsons, D.R., eds., **Fluvial-Tidal Sedimentology. Developments in Sedimentology** 68, Elsevier, Amsterdam. pp. 353–394. **Citations: 43**
31. Choi, K.S., Jo, J.H., 2015. Morphodynamics and stratigraphic architecture of compound dunes on the open-coast macrotidal flat, Yeochari, Ganghwa Island in Gyeonggi Bay, Korea. ***Marine Geology*** 366, 34 – 48. **Citations: 17**
30. Choi, K.S., Jo, J.H., 2015. Morphodynamics of tidal channels in the open coast macrotidal flat, southern Ganghwa Island in Gyeonggi Bay, west coast of Korea. ***Journal of Sedimentary Research*** 85, 582–595. **Citations: 40**
29. Choi, K.S., 2014. Morphology, Sedimentology and Stratigraphic Evolution of Korean tidal flat – implication for future coastal managements. ***Ocean & Coastal Managements*** 102, 437–448. **Citations: 35**
28. Choi, K.S., Hong, C.M., Kim, M.H., Oh, C.R., Jung, J.H., 2013. Morphologic evolution of macrotidal estuarine channels in the Gomso Bay, west coast of Korea: implication for the architectural development of inclined heterolithic stratification. ***Marine Geology*** 346, 343-354. **Citations: 45**
27. Dalrymple, R.W., MacKay, D.A., Ichaso, A.A., Choi, K.S., 2012. Processes, Morphodynamics, and Facies of Tide-dominated Estuaries. In: Davis, R.A. and Dalrymple, R.W., eds., **Principles of Tidal Sedimentology.** Springer Verlag, pp. 79-107. DOI 10.1007/978-94-007-0123-6_5. **Citations: 236**
26. Choi, K.S., 2011. External controls on the architecture of inclined heterolithic stratification (IHS) of macrotidal Sukmo Channel: wave versus rainfall. ***Marine Geology*** 285, 17–28. **Citations: 43**
25. Choi, K.S., 2011. Tidal rhythmites in a mixed-energy, macrotidal estuarine channel, Gomso Bay, west coast of Korea. ***Marine Geology*** 280, 105–115. **Citations: 37**
24. Kwon, M.J., Yun, S.T., Doh, S.J., Son, B.K., Choi, K.S., Kim, W., 2011. Metal enrichment and magnetic properties of core sediments from the eastern Yellow Sea, East Asia: Implications for paleo-depositional change during the late Pleistocene/Holocene transition. ***Quaternary International*** 230, 95–105. **Citations: 10**
23. Yoon, Y.H., Lee, G.H., Yoo, D.G., Han, H.C., Choi, K.S., Lee, K., 2010. Cross-section

- restoration and one-dimensional basin modeling of the Central Subbasin in the southern Kunsan Basin, Yellow Sea. **Journal of Marine and Petroleum Geology** 27, 1325–1339. **Citations: 15**
22. Choi, K.S., 2010. Rhythmic climbing-ripple cross-lamination in inclined heterolithic stratification of a macrotidal estuarine channel, Gomso Bay, west coast of Korea. **Journal of Sedimentary Research** 80, 550–561. **Citations: 62**
 21. Dalrymple, R.W., Choi, K.S., 2009. Coastal Environments. In: Vivien ed., **Encyclopedia of Paleoclimatology and Ancient Environments**. Springer Verlag, p. 183-187. 10.1007/978-1-4020-4411-3_44.
 20. Dalrymple, R.W., Choi, K.S., 2007. Morphologic and facies trends through the fluvial-marine transition in tide-dominated depositional systems: a schematic framework for environmental and sequence-stratigraphic interpretations. **Earth-Science Reviews** 81, 135–174. **Citations: 1083**
 19. Choi, K.S., Kim, S.P., 2006. Late Quaternary stratigraphy of Kimpo tidal flat, Kyonggi Bay, west coast of Korea. **Marine Geology** 232, 17–34. **Citations: 35**
 18. Choi, K.S., Kim, J.H., 2006. Identifying late Quaternary coastal deposits in Kyonggi Bay, Korea, by their geotechnical properties. **Geo-Marine Letters** 26, 77–89. **Citations: 21**
 17. Choi, K.S., Dalrymple, R.W., Chun, S.S., Kim, S.P., Park, S.J., 2005. Sedimentology of inclined heterolithic stratification in Sukmo Channel, Kyonggi Bay, Korea – Application to Oil Sand Exploration. **Korean Jour. of Petrol. Geol.** 11, 18–26. (Korean with English abstract)
 16. Choi, K.S., 2005. Pedogenesis of late Quaternary deposits, northern Kyonggi Bay, Korea: Implications for relative sea-level change and regional stratigraphic correlation. **Palaeogeography, Palaeoclimatology, Palaeoecology** 220, 387–404. **Citations: 35**
 15. Choi, K.S., Dalrymple, R.W. 2004. Recurring tide-dominated sedimentation in Kyonggi Bay (west coast of Korea): similarity of tidal deposits in late Pleistocene and Holocene sequences. **Marine Geology** 212, 81–96. **Citations: 72**
 14. Choi, K.S., Dalrymple, R.W., Chun, S.S., Kim, S.P., 2004. Sedimentology of modern, inclined heterolithic stratification (IHS) in the macrotidal Han River Delta, Korea. **Journal of Sedimentary Research** 74, 677–689. **Citations: 160**
 13. Choi, K.S., Khim, B.K., Woo, K.S., 2003. Spherulitic siderites in the Holocene coastal deposits of Korea (eastern Yellow Sea): elemental and isotopic composition and depositional environment. **Marine Geology** 202, 17–31. **Citations: 53**
 12. Dalrymple, R.W., Choi, K.S., 2003. Sediment transport by tides. In: G. Middleton ed., **Encyclopedia of Sediments and Sedimentary Rocks**. Kluwer Academic Publishers, p.606-609. **Citations: 45**
 11. Park, Y.A., Choi, K.S., 2002. Late Quaternary stratigraphy of the muddy tidal deposits, west coast of Korea. In Terry Healy, Ying Wang, J. Healy (Eds.) **Muddy Coasts of the World – Processes, Deposits and Function**. Ch. 16. (Proceedings in Marine Science 4). Elsevier, Amsterdam. 391–409. **Citations: 8**
 10. Choi, K.S., Kim, B.O., Park, Y.A., 2001. Late Pleistocene tidal rhythmites in Kyunggi Bay, west coast of Korea: a comparison with simulated rhythmites based on modern tides and implications for intertidal positioning. **Journal of**

Sedimentary Research 71, 681-692. **Citations: 35**

9. Choi, K.S., Park, Y.A., 2000. Late Pleistocene silty tidal rhythmites in the macrotidal flat between Youngjong and Yongyou Islands, west coast of Korea. **Marine Geology** 167, 231-241. **Citations: 48**
8. Khim, B.-K., Choi, K.S., Park, Y.A., 2000. Elemental composition of siderite grains in early Holocene deposits of Youngjong Island (west coast of Korea) and its palaeoenvironmental implications. In B.W. Flemming, M.T. Delafontaine and G. Liebezeit (eds) **Muddy Coast Dynamics and Resource Management** (Proceedings in Marine Science 2). Elsevier, Amsterdam, 205-217. **Citations: 10**
7. Park, Y.A., Choi, K.S., Kim, S.J., 2000. Textural characteristics of the overwash mark sediments on the berm of the Nobong beach environment, East Sea of Korea. **Korean J. Quaternary Research** 14, 1-5. (Korean with English abstract)
6. Park, Y.A., Choi, K.S., Doh, S.J., Oh, J.H., 1999. Late Quaternary (late Pleistocene and Holocene) stratigraphy and unconformity in the Kimpo tidal deposits, Kyunggi Bay, west coast of Korea. **Korean J. Quaternary Research** 13, 79-89. (Korean with English abstract) **Citations: 3**
5. Khim, B.-K., Choi, K.S., Park, Y.A., Oh, J.K., 1999. Occurrence of authigenic siderites in the early Holocene coastal deposit in the west coast of Korea: an indicator of depositional environment. **Geoscience Journal** 3, 163-170. **Citations: 18**
4. Kim, B.O., Park, Y.A., Oh, I.S., Khim, B.-K., Choi, K.S., 1998. Beach profile estimation using a photogrammetry. 'The Sea' J. Korean Soc. Oceanography 3, 228-233. (Korean with English abstract) **Citations: 4**
3. Park, Y.A., Choi, K.S., 1998. Silty tidal rhythmites from the upper Pleistocene sedimentary sequence, western coast of Korea. **J. Korean Soc. of Oceanography** 33, 71-79. **Citations: 16**
2. Choi, K.S., Choi, J.H., 1996. Paleo sea-level fluctuations recorded in the subtidal deposits near Mankyung-Dongjin Rivers (Saemankum Reclamation Area) in the west coast of Korea. **J. Agricultural Engineering** 53, 16-28. (Korean with English abstract).
1. Park, Y.A., Choi, K.S., Choi, J.Y., 1995. Signatures of the sea-level fluctuations recorded in the innershelf deposits in the eastern margin of the Yellow Sea (Korean West Sea). **Yellow Sea Research** 1, 17-24. **Citations: 5**

RESEARCH PUBLICATIONS IN PREPARATION

1. Jo, J.H., Kim, D.H., Choi, K.S., 2024. Facies and stratigraphic architecture of inshore tidal flats in the distal fluvial-tidal transition zone of the Sittaung River estuary, Myanmar. **Marine Geology**.
2. Jo, J.H., Kim, D.H., Choi, K.S., 2024. Morphologic and hydrodynamic controls on the occurrence of tidal-bore deposits in the inshore tidal flats, Sittaung River estuary, Myanmar. **Sedimentary Geology**.
3. Choi, K.S., Jo, J.H., Kim, D.H., 2024. Breaking antidunes and cyclic steps during ebb tides: primary drivers on the morphodynamics of inshore macrotidal flats in the Sittaung River estuary, Myanmar. **Marine Geology**.
4. Choi, K.S., Kim, D.H., Jo, J.H., 2024. Tide-driven rapid geomorphic changes of the

- inshore macrotidal flats, Sittaung River estuary, Myanmar. **Marine Geology**.
5. Sohn, S.Y., Jo, J.H., Choi, K.S., 2024. Rapid accumulation of early Holocene tidal rhythmites in the paleo-Han River estuary, Korea: Evidence of intensified summer monsoon. **Marine Geology**.
 6. Kim, D.H., Jo, J.H., Choi, K.S., 2024. Quantification of intertidal-dune morphodynamics and sediment fluxes based on unmanned aerial vehicle (UAV)-assisted photogrammetry. **Marine Geology**.

NONREFEREED PUBLICATIONS

10. Woo, K., Ha, H., Kang, H., Kwon, Y., Khim, B., Kim, S., Sohn, Y., Yoo, D., Yoon, S., Lee, K., Lee, Y., Cho, H., **Choi, K.S.**, Marine Geology (in Korean), 536 p., Sigma Press. Korean translation of The Seafloor authored by E. Seibold and W.H. Berger and published by Springer.
9. **Choi, K.S.**, 2014. Architectural development of inclined heterolithic stratification (IHS) and relevant hydrodynamics in a macrotidal channel, Gomso Bay, west coast of Korea. Contract report to Statoil Canada.
8. Olariu, C., Steel, R., Olariu, I., **Choi, K.S.**, 2011. Fluvial tidal deposits: inclined heterolithic strata of the Campanian Neslen Formation in the Book Cliff area, Utah, USA. Field trip guide for BITE 2 consortium (June 9 – 11, 2011), 39p.
7. **Choi, K.S.**, Chang, T.S., 2008. Field trip guide book – Ganghwa Island and adjacent areas in the northern Gyeonggi Bay, Korea – Macrotidal estuarine sedimentation in tidal flat, tidal channel and offshore tidal bar – Modern Analogue for Canadian Oil Sand Reservoir. Contribution to Korean Society of Petroleum Geology (Oct. 29th and 30th, 2008), 71p.
6. **Choi, K.S.**, Chun, S.S., Kim, J.K., 2007. Field trip guide book – Ganghwa Island and adjacent areas in the northern Gyeonggi Bay, Korea – Macrotidal estuarine sedimentation in sandy/muddy tidal flat, and tidal channel. Contribution to NORI-ONR joint program “Joint Korea-U.S. Study of Tidal Flat Dynamics (June 5th and 6th, 2007). 55p.
5. Chun, S.S., Kim, J.K., Baek, Y.S., **Choi, K.S.**, 2007. Tidal flats in the western coast of Korea: open-coast, embayed, and estuarine intertidal flats. – KSRG/KSPG Field Guide Book. 145p. (ISBN: 978-89-5832-343-3).
4. Dalrymple, R.W., **Choi, K.S.**, 2003. Proximal-distal trends in tide-dominated depositional systems. Contract report to the members of FORCE.
3. **Choi, K.S.**, 2001. Late Quaternary stratigraphy and evolution of tidal deposits in Kyunggi Bay, west coast of Korea. Unpublished Ph-D thesis, Seoul National University, Seoul, Korea, 225p.
2. Park, Y.A., Chun, S.S., **Choi, K.S.** (edited), 2000. Tidalite 2000 – Dynamics, Ecology and Evolution of the Tidal Flats. The 5th International Conference on Tidal Environments. (abstract volume) Seoul, Korea. June 12-14, 188p.
1. **Choi, K.S.**, 1994. Sedimentological study of the sea floor deposits off the Mankyung-Dongjin River estuary, west coast of Korea. Unpublished Master thesis, Seoul National University, Seoul, Korea, 183p.

INTERNATIONAL CONFERENCE ABSTRACTS

99. Jo, J., Kim, D., Sohn, S., Bang, S., **Choi, K.S.**, 2024. Impact of dike construction on sedimentary facies and morphological evolution of semienclosed macrotidal flats in the western coast of Korea. IGC 2024 (Busan, Korea). 2024.8.27.
98. Bang, S., Sohn, S., Bisson, L.S., Jo, J., **Choi, K.S.**, 2024. Seasonal controls on the channel morphodynamics in an open coast macrotidal flat, west coast of Korea. IGC 2024 (Busan, Korea). 2024.8.27.
97. Sohn, S., Bang, S., Jo, J., **Choi, K.S.**, 2024. Tidal and seasonal influences on the morphodynamic evolution of the tidal channels in a macrotidal embayment: Garolim Bay, west coast of Korea. IGC 2024 (Busan, Korea). 2024.8.27.
96. Sohn, S., Bang, S., Jo, J., **Choi, K.S.**, 2024. Spatiotemporal variations of morphodynamics and hydrodynamics in the macrotidal environment (Garolim Bay), west coast of Korea. 37th IAS meeting (Aberdeen, UK). 2024.6.25-27.
95. Bang, S., Sohn, S., Kim, D., Jo, J., **Choi, K.S.**, 2024. Human-induced transitions in the Nakdong River mouth: A sedimentological perspective on delta-estuary evolution. 37th IAS meeting (Aberdeen, UK). 2024.6.25-27.
94. Jo, J., Kim, D., Sohn, S., Bang, S., **Choi, K.S.**, 2024. Characterization on sedimentary environments in the fjord head delta of deglaciated Dicksonfjorden, Svalbard, Norway: the impact of post-Little Ice Age glacier melting. 37th IAS meeting (Aberdeen, UK). 2024.6.25-27.
93. Bang, S., Jo, J., Kim, D., Sohn, S., **Choi, K.S.**, 2024. Sedimentation on a channelized, open-coast macrotidal flat of the mid-western coast of Korea. SEPM International Sedimentary Geoscience Congress (Flagstaff, AZ). 2024.5.5-8.
92. Sohn, S., Bang, S., Kim, D., Jo, J., **Choi, K.S.**, 2024. Morphodynamics and sedimentary structures of breaking antidunes in the macrotidal environment. SEPM International Sedimentary Geoscience Congress (Flagstaff, AZ). 2024.5.5-8.
91. Jo, J., Kim, D., Sohn, S., Bang, S., Jensen, M.A., Nam, S.-I., **Choi, K.S.**, 2024. Depositional environments in the fjord head delta of deglaciated Dicksonfjorden, Svalbard: the impact of global warming after the post-Little Ice Age. EGU 2024 (Vienna, Austria). 2024.4.14-18.
90. Sohn, S., Bang, S., Jo, J., **Choi, K.S.**, 2023. Seasonal variation of morphology and its implications for blue carbon in the macrotidal environment (Garolim Bay), west coast of Korea. YES 2023 (Nanjing, China). 2023.11.24-27.
89. Bang, S., Kim, D., Sohn, S., Jo, J., **Choi, K.S.**, 2023. Significance of rainfall-induced discharge and artificial structures on the sedimentation and morphodynamics of the open-coast macrotidal flats in the southern Ganghwa tidal flat, west coast of Korea. YES 2023 (Nanjing, China). 2023.11.24-27.
88. **Choi, K.S.**, Jo, J., Kim, D., Sohn, S., Bang, S., 2023. Stratigraphic architecture of the inshore tidal flats in the distal fluvial-tidal transition zone of the Sittaung River estuary, Myanmar: parasequence in a tide-dominated, sediment-laden estuary. SEPM Parasequence Research Conference 2023 (Green River, Utah). 2023. 10.9-12.
87. Jo, J.H., Kim, D.H., **Choi, K.S.**, 2023. Stratigraphic architecture of the inshore tidal flats in the distal fluvial-tidal transition zone of the Sittaung River Estuary, Myanmar. International Conference on Fluvial Sedimentology (Riva del Garda,

- Italy). 2023.7.2-7.
86. Sohn, S.Y., Mona, Jo, J.H., **Choi, K.S.**, 2023. The role of an intensified early Holocene summer monsoon on the sedimentation and stratigraphic evolution in the macrotidal embayment, mid-western Korea. International Conference on Fluvial Sedimentology (Riva del Garda, Italy). 2023.7.2-7.
85. **Choi, K.S.**, Jo, J.H., Kim, D.H., Sohn, S.Y., 2023. Channel morphodynamics in the fluvial-tidal transition of the macrotidal Sittaung River estuary, Myanmar: implication for stratigraphic architecture. International Conference on Fluvial Sedimentology (Riva del Garda, Italy). 2023.7.2-7.
84. Sohn, S.Y., Mona, Jo, J.H., **Choi, K.S.**, 2023. The role of an intensified early Holocene summer monsoon on the sedimentation and stratigraphic evolution in the macrotidal embayment, mid-western Korea. 36th IAS meeting (Dubrovnik, Croatia). 2023.6.12-16.
83. Bang, S.H., Jo, J.H., Kim, D.H., **Choi, K.S.**, 2023. Sedimentation on a channelized, open-coast macrotidal flat of the mid-western coast of Korea. 36th IAS meeting (Dubrovnik, Croatia). 2023.6.12-16.
82. **Choi, K.S.**, Kim, D.H., Jo, J.H., Sohn, S.Y., 2023. Morphodynamic evolution of paraglacial spit complexes on a tide-influenced Arctic fjord delta (Dicksonfjorden, Svalbard). EGU 2023 (Vienna, Austria), 2023.4.23-28.
81. **Choi, K.S.**, Jo, J.H., Kim, D.H., 2022. Tide-driven rapid geomorphic changes of the inshore macrotidal flats, Sittaung River estuary, Myanmar. AGU 2022 (Chicago, USA), 2022.12.12-16.
80. Jo, J.H., Kim, D.H., **Choi, K.S.**, 2022. Facies and stratigraphic architecture of inshore tidal flats in the distal fluvial-tidal transition zone of the Sittaung River estuary, Myanmar. Tidalites2022 (Matera, Italy), 2022.5.3-5.
79. Jo, J.H., Kim, D.H., **Choi, K.S.**, 2022. Morphologic and hydrodynamic controls on the occurrence of tidal-bore deposits in the inshore tidal flats, Sittaung River estuary, Myanmar. Tidalites2022 (Matera, Italy), 2022.5.3-5.
78. Kim, D.H., Jo, J.H., **Choi, K.S.**, 2022. Role of rainfall-induced runoff discharge and human disturbance on the morphodynamics and sedimentation in the semienclosed macrotidal flats (Shinsi tidal flats, Korea). Tidalites2022 (Matera, Italy), 2022.5.3-5.
77. **Choi, K.S.**, Jo, J.H., Kim, D.H., 2022. Breaking antidunes and cyclic steps during ebb tides: primary drivers on the morphodynamics of inshore macrotidal flats in the Sittaung River estuary, Myanmar. Tidalites2022 (Matera, Italy), 2022.5.3-5.
76. Kim, D.H., Jo, J.H., **Choi, K.S.**, 2022. Quantification of intertidal-dune morphodynamics and sediment fluxes based on unmanned aerial vehicle (UAV)-assisted photogrammetry. Tidalites2022 (Matera, Italy), 2022.5.3-5.
75. **Choi, K.S.**, Kim, D.H., Jo, J.H., 2022. Tide-driven rapid geomorphic changes of the inshore macrotidal flats, Sittaung River estuary, Myanmar. Tidalites2022 (Matera, Italy), 2022.5.3-5.
74. Sohn, S.Y., Jo, J.H., **Choi, K.S.**, 2022. Rapid accumulation of early Holocene tidal rhythmites in the paleo-Han River estuary, Korea: Evidence of intensified summer monsoon. Tidalites2022 (Matera, Italy), 2022.5.3-5.
73. **Choi, K.S.**, 2021. Tidal, seasonal, and anthropogenic control on the sedimentology and morphologic evolution of macrotidal flats, west coast of Korea. Tidalites2021 (Italy), 2021.10.5-6. (**Invited talk**).

72. Kim, D.H., Jo, J.H., **Choi, K.S.**, 2021. Quantification of intertidal-dune morphodynamics and sediment transport based on unmanned aerial vehicle (UAV)-assisted photogrammetry International Coastal Symposium (Spain), 2021.5.3-5.
71. Kim, D.H., Jo, J.H., Nam, S.I., **Choi, K.S.**, 2021. Morphodynamics and sedimentary processes in arctic transitional environment: Dicksonfjorden, Svalbard. Arctic Science Summit Week 2021 (Online, Portugal), 2021.3.19-26.
70. Kim, D.H., Jo, J.H., Nam, S.I., **Choi, K.S.**, 2020. Coastal morphodynamics in an Arctic fluvial-tidal transition zone in the deglaciated Dicksonfjorden, Svalbard. EGU Annual meeting (Austria), 2020.5.4-8.
69. Jo, J.H., Kim, D.H., **Choi, K.S.**, 2020. Controls of channel morphodynamics on the intertidal dune morphodynamics and associated bedload transport in the open-coast macrotidal flats. EGU Annual meeting (Austria), 2020.5.4-8.
68. **Choi, K.S.**, Kim, D.H., Jo, J.H., 2019. Morphodynamics and sedimentology of the macrotidal river mouth of the Sittaung River delta, Myanmar. 34th IAS meeting (Rome, Italy), 2019.9.10-13.
67. Kim, D.H., Jo, J.H., Kwon, B.O., **Choi, K.S.**, 2019. Derelict fishing gear in the macrotidal flats, northern Gyeonggi Bay, west coast of Korea: Implication for benthic ecosystem. YES2019 (Seoul, Korea), 2019.7.17-20.
66. Jo, J.H., Kim, D.H., Choi, K.S., 2018. Effect of channel morphodynamics on the intertidal-dune morphodynamics and associated sediment transport in the open-coast macrotidal flats, northern Gyeonggi Bay, west coast of Korea. ICAMG9 (Shanghai, China), 2018.10.10-12.
65. Kim, D.H., Jo, J.H., **Choi, K.S.**, 2018. Quantification of intertidal-dune morphodynamics and sediment transport based on unmanned aerial vehicle (UAV)-assisted photogrammetry. ICAMG9 (Shanghai, China), 2018.10.10-12.
64. Kim, D.H., Jo, J.H., Ryu, J.S., **Choi, K.S.**, 2018. Influence of dike-induced morphologic and sedimentologic changes on the benthic ecosystem in the sheltered tidal flats, Shinsi Island, Saemangeum area, west coast of Korea. ECSA (Perth, Australia), 2018. 9. 3-6.
63. **Choi, K.S.**, Kim, D.H., Jo, J.H., 2018. A chute-cutoff of extremely sinuous meander-bend and synchronous infilling of cutoff channel at the landward limit of tidal backwater zone of Sittaung River, Myanmar. ISC2018 (Quebec City, Canada), 2018. 8.13-17.
62. Jo, J.H., Kim, D.H., **Choi, K.S.**, 2018. Effect of channel morphodynamics on the intertidal dune morphodynamics and associated sediment transport in the open-coast macrotidal flat, northern Gyeonggi Bay, west coast of Korea. ISC2018 (Quebec City, Canada), 2018. 8.13-17.
61. Kim, D.H., Jo, J.H., **Choi, K.S.**, 2018. Quantification of intertidal dune morphodynamics and sediment transport based on unmanned assisted vehicle (UAV)-assisted photogrammetry. ISC2018 (Quebec City, Canada), 2018. 8.13-17.
60. Kim, D.H., Jo, J.H., Ryu, J.S., **Choi, K.S.**, 2018. Influence of dike-induced morphologic and sedimentologic changes on the benthic ecosystem in the sheltered tidal flats, Saemangeum area, west coast of Korea. YES2018 (Seoul, Korea), 2018.7.18-21.
59. **Choi, K.S.**, Kim, D.H., Jo, J.H., 2018. Tide-modulated sedimentation in a highly

- sinuous channel near the dry-season tidal limit of Sittaung River, Myanmar. AAPG ACE (Salt Lake City, USA), 2018. 5.20-23.
58. **Choi, K.S.**, Kim, D.H., Jo, J.H., Jensen, M., Nam, S.I., 2017. Morphodynamics and sedimentary processes in arctic transitional environments: Dicksonfjorden, Svalbard. (Oslo, Norway), 2017.11.6-9.
57. **Choi, K.S.**, Jo, J.H., Kim, D.H., 2017. Controls on the downstream variability of channel morphodynamics and point-bar architecture in a tide-influenced monsoon river, Sittaung River, Myanmar. GSA (Seattle, USA), 2017. 10.22-25. (**Invited talk**).
56. **Choi, K.S.**, Jo, J.H., Kim, D.H., 2017. Seasonal, tidal, morphodynamic controls on the architecture of inclined heterolithic stratification in the proximal backwater zone of tide-influenced Sittaung River, Myanmar. ICFS 11 (Calgary, Canada), 2017. 7.17-21.
55. **Choi, K.S.**, Jo, J.H., Kim, D.H., 2017. Tide-modulated sedimentation in a highly sinuous channel near the dry-season tidal limit of Sittaung River, Myanmar. ICFS 11 (Calgary, Canada), 2017. 7.17-21.
54. **Choi, K.S.**, Kim, D.H., 2017. Morphologic and hydrodynamic controls on the occurrence of tidal bundles in an open-coast macrotidal environment, northern Gyeonggi Bay, west coast of Korea. AAPG ACE (Houston, USA), 2017. 4. 2-5.
53. **Choi, K.S.**, 2017. Proximal-distal trends in the point-bar architecture of Sittaung River, Myanmar: implications for the reservoir characterization of meandering rivers in the tidal-fluvial transition. Exciting Evolution: Myanmar's Petroleum Systems, Plays and Field Developments. AAPG/EAGE/MGS 3rd Oil & Gas Myanmar Geosciences Conference (Myanmar, Yangon), 2017. 2. 22-24. (**Invited talk**).
52. Jensen, M., **Choi, K.S.**, Forwick, M., Howe, J., Husum, K., Korsun, S., Maat, D., Nam, S.-I., 2016. Arctic sediment transport from land to sea – an integrated study of coastal – marine processes and deposits in Dicksonfjorden, Svalbard. AGU Fall Meeting (San Francisco, USA), 2016. 12.12-16.
51. **Choi, K.S.**, 2016. Morphodynamics and point-bar architecture of Sittaung River, Myanmar: implications for the reservoir characterization of meandering rivers in the tidal-fluvial transition. Gussow 2016: Clastic Sedimentology: New Ideas and Applications (Banff, Alberta, Canada), 2016. 10.11-13. (**Invited talk**).
50. **Choi, K.S.**, 2016. Enhanced Han River sediment discharge during early Holocene in northern Gyeonggi Bay, west coast of Korea. AOGS (Beijing, China), 2016. 7. 31-8.5.
49. **Choi, K.S.**, Jeon, J.H., Jo, J.H., Suk, J.U., Kim, D.H., 2016. Spatial and temporal variability of point bar architecture in the tidal-fluvial transition of Sittaung River, Myanmar. AAPG ACE (Calgary, Canada), 2016. 6. 19-22.
48. **Choi, K.S.**, 2016. Spatial and temporal variability of point-bar architecture in the fluvial-tidal transition. 32nd IAS meeting (Marrakech, Morocco), 2016. 5.23-26.
47. **Choi, K.S.**, Jo, J.H., 2016. Morphodynamics, hydrodynamics and stratigraphic architecture of intertidal compound dunes on the open-coast macrotidal flat in the south of Ganghwa Island in Gyeonggi Bay, Korea. Marine and River Dune Dynamics (MARIDV) (North Wales, UK), 2016. 4.4-5.
46. **Choi, K.S.**, 2015. Spatial and temporal variability of point-bar architecture in the fluvial-tidal transition. Tidalites 2015 (Puerto Madryn, Argentina), 2015. 11. 17-

- 19.
45. Jo, J.H., **Choi, K.S.**, 2015. Morphodynamics and stratigraphic architecture of intertidal dunes on the open-coast macrotidal flat in the south of Ganghwa Island in Gyeonggi Bay, west coast of Korea. *Tidalites* 2015 (Puerto Madryn, Argentina), 2015. 11. 17-19.
44. **Choi, K.S.**, Jeon, J., 2015. Point-bar morphodynamics and hydrodynamics in a macrotidal channel, Gomso Bay, west coast of Korea: their impact on the stratigraphic architecture of channel and abandoned channel-fills. AAPG ICE (Melbourne, Australia), 2015. 9. 13-16.
43. **Choi, K.S.**, Jo, J.H., 2015. Controls on the morphodynamics and stratigraphic architecture of compound dunes and point bars on the open-coast macrotidal flat in Gyeonggi Bay, west coast of Korea. AAPG ACE (Denver, USA), 2015.5.31-6.1.
42. **Choi, K.S.**, 2014. Controls on the heterogeneity distribution within inclined heterolithic stratification, lessons learned from modern analogues. Oil Sands & Heavy Oil Symposium: A Local to Global Multidisciplinary Collaboration (Calgary, Canada), 2014.10.14-16.
41. **Choi, K.S.**, Oh, C.R., Jo, J.H., Fustic, M., Park, J.Y., Martinius, A.W., 2014. Architectural development of inclined heterolithic stratification (IHS) and relevant hydrodynamics in a macrotidal channel, Gomso Bay, west coast of Korea. AAPG ICE (Istanbul, Turkey), 2014.9.14-17.
40. **Choi, K.S.**, Oh, C.R., Jo, J.H., 2014. Factors controlling the morphodynamics of macrotidal channels in Korea: implications on the facies and stratigraphic architecture of inclined heterolithic stratification (IHS) formed in tidal-fluvial transition. AAPG ACE (Houston, USA), 2014.4.6.-9.
39. **Choi, K.S.**, Oh, C.R., Jo, J.H., 2013. Monsoon-driven morphodynamic changes of macrotidal channels in Korea: implication on the facies and stratigraphic architecture of inclined heterolithic stratification (IHS) formed in fluvial-tidal environment. 10th International Conference on Fluvial Sedimentology (Leeds, UK), 2013.7.14-19.
38. **Choi, K.S.**, Oh, C.R., Jo, J.H., 2013. Morphodynamics of tidal channels in the macrotidal Yeochari tidal flat, Gyeonggi Bay, Korea: climate and tidal controls on the architecture of inclined heterolithic stratification. GeoConvention 2013 (Calgary, Canada), 2013.5.6-10.
37. **Choi, K.S.**, Jung, J.H., Jo, J.H., 2012. Rapid infilling of macrotidal estuary during early Holocene in Yeochari tidal flat, Gyeonggi Bay, west coast of Korea. *Tidalites* 2012 (Caen, France). 2012.7.30-8.2. 27-28.
36. **Choi, K.S.**, Hong, C.M., Oh, C.R., Jung, J.H., 2012. Morphodynamics of tidal channels in the macrotidal Yeochari tidal flat, Gyeonggi Bay, Korea: implication for the architecture of inclined heterolithic stratification. *Tidalites* 2012 (Caen, France). 2012.7.30-8.2. 29-30.
35. **Choi, K.S.**, Steel, R.J., Olariu, C., 2012. Tidal rhythmites in the Upper Cretaceous Neslen Formation, Utah, USA: their implications for the sedimentology and stratigraphic architecture of tidal-fluvial channel. *Tidalites* 2012 (Caen, France). 2012.7.30-8.2. 25-26.
34. **Choi, K.S.**, Steel, R.J., Olariu, C., 2012. Tidal rhythmites in the Upper Cretaceous Neslen Formation, Utah, USA: their implications for the sedimentology and

- stratigraphic architecture of tidal-fluvial channel. AAPG annual meeting (Long Beach, USA). 2012.4.22-25.
33. Olariu, C., Steel, R.J., Olariu, M., **Choi, K.S.**, 2012. Architecture of inclined heterolithic strata of Neslen fluvial-tidal channel deposits: lessons on reservoir compartmentalization. AAPG annual meeting (Long Beach, USA). 2012.4.22-25.
32. **Choi, K.S.**, Hong, C.M., Kim, M.H., Koo, G.H., 2011. Morphologic evolution of a macrotidal estuarine channel, Gomso Bay, west coast of Korea: implication for the architectural development of inclined heterolithic stratification. IAS regional meeting (Zaragoza, Spain). 2011.7.5-10.
31. **Choi, K.S.**, Hong, C.M., Kim, M.H., Koo, G.H., 2011. Morphologic evolution of a macrotidal estuarine channel, Gomso Bay, west coast of Korea: implication for the architectural development of inclined heterolithic stratification. IAS regional meeting (Zaragoza, Spain). 2011.7.5-10.
30. **Choi, K.S.**, Steel, R.J., Olariu, C., Olariu, M., 2011. Updip migrating bedforms in the inclined heterolithic strata as a compelling evidence of a sinuous, meandering tidal-fluvial channel: comparisons between ancient (Upper Cretaceous Neslen Formation, USA) and modern (macrotidal estuary, Gomso Bay, Korea) analogues. AAPG annual meeting (Houston, USA). 2011.4.11-14.
29. **Choi, K.S.**, Koo, G.H., Kim, M.H., Hong, C.M., Kwon, Y.K., 2010. Sedimentology and morphodynamics of intertidal channels in the macrotidal Han River delta, Korea – potential modern analogue of tide-dominated oil sand reservoir in Canada. 18th International Sedimentological Congress (Mendoza, Argentina). 2010.9.26-10.1.
28. **Choi, K.S.**, 2010. Rhythmic climbing-ripple cross-lamination in inclined heterolithic stratification (IHS) of a macrotidal estuarine channel, Gomso Bay, west coast of Korea. 18th International Sedimentological Congress (Mendoza, Argentina). 2010.9.26-10.1.
- 27 **Choi, K.S.**, 2010. Tidal and seasonal controls on the morphodynamics of macrotidal Sukmo Channel in Gyeonggi Bay, west coast of Korea – implication to the architectural development of inclined heterolithic stratification. GeoCanada 2010 (Calgary, Canada). 2010.5.10-14.
- 26 **Choi, K.S.**, 2010. External controls on the architecture of inclined heterolithic stratification of macrotidal Sukmo Channel, west coast of Korea: wave versus rainfall. AAPG annual meeting (New Orleans, USA). 2010.4.11-14.
25. **Choi, K.S.**, 2009. Rhythmic climbing ripple lamination in an inclined heterolithic stratification of estuarine intertidal channel in the macrotidal Gomso Bay, west coast of Korea. AAPG annual meeting (Denver, USA). 2009.6.7-10
24. **Choi, K.S.**, Kim, S.P., Min, G.H., Koo, K.H., Park, Y.A., 2008. Late Quaternary stratigraphy and evolution of nearshore sand ridges in macrotidal Gyeonggi Bay, west coast of Korea. 7th International Conference on Tidal Environment, Tidalite 2008 (Qingdao, China). 2008.9.25-27.
23. **Choi, K.S.**, 2008. Rhythmic climbing ripple lamination in an inclined heterolithic stratification of macrotidal estuarine channel, Gomso Bay, west coast of Korea: implication on channel stability. 7th International Conference on Tidal Environment, Tidalite 2008 (Qingdao, China). 2008.9.25-27.
22. Dalrymple, R.W., Cummings, D., Jin, J.H., **Choi, K.S.**, 2008. Geomorphology,

- sedimentology and depositional architecture of the tide-dominated Han River delta, Korea. 7th International Conference on Tidal Environment, Tidalite 2008 (Qingdao, China). 2008.9.25-27.
21. Choi, K.S., 2008. Spatial and temporal variability of inclined heterolithic stratification, Gyeonggi Bay, Korea. 6th International Conference on Asian Marine Geology (Kochi, Japan). 2008.8.29-9.1
 20. Dalrymple, R.W., Cummings, D., Jin, J.H., Choi, K.S., 2008. The Cliniform of the tide-dominated Han River delta, Korea. SEPM Research Conference (Rock Springs, USA). 2008. 8. 15–18.
 19. Dalrymple, R.W., Choi, K.S., Jin, J.H., Cummings, D., 2007. Geomorphology and stratigraphic evolution of the Han River delta. AAPG annual meeting (Long Beach, USA). 2007. 4. 1-4.
 18. Dalrymple, R.W., Choi, K.S., 2004. Proximal-distal trends in tide-dominated setting. Tidalite 2004 (Copenhagen, Denmark). 2004.8.1-5.
 17. Choi, K.S., Dalrymple, R.W., Jin, J.H., Chun, S.S., Min, G.H., 2004. Morphodynamics of a giant tidal bar in Kyonggi Bay, west coast of Korea. Tidalite 2004 (Copenhagen, Denmark). 2004.8.1-5.
 16. Choi, K.S., Dalrymple, R.W., Chun, S.S., Kim, S.P., 2004. Sedimentology of modern, inclined heterolithic stratification in the macrotidal Han River Delta, Korea. Tidalite 2004 (Copenhagen, Denmark). 2004.8.1-5.
 15. Yang, B.C., Dalrymple, R.W., Chun, S.S., Choi, K.S., 2002. Climate-dominated (?) sedimentation on the open-coast tidal flats of Korea. GSA annual meeting (Denver, Colorado, USA). 2002. 10. 27-30.
 14. Choi, K.S., Dalrymple, R.W., Chun, S.S., Min, G.H., 2002. Morphodynamics of a giant tidal bar in Kyunggi Bay, west coast of Korea. Tidalite 2002 (Hangzhou, China). 2002. 8. 8-13.
 13. Choi, K.S., Dalrymple, R.W., Kim, S.P., Park, Y.A., Chun, S.S., 2002. Sedimentology of modern, inclined heterolithic stratification from the tide-dominated, Han River Delta, Korea. AAPG/SEPM annual convention (Houston, Texas, USA). 2002.3.10-13.
 12. Park, Y.A., Choi, K.S., 2000. Characteristic clastic sediment distribution on the outer and inner continental shelf off the south eastern coast of Korea. 31st IGC in Rio de Janeiro (Brazil). '2000.8.6-17.
 11. Choi, K.S., Park, Y.A., 2000. Tidal rhythmites in the Kyunggi Bay, west coast of Korea: a comparison between Holocene and late Pleistocene example. The 5th conference on tidal environments - Tidalite 2000 in Seoul. June 12-14, p.22.
 10. Choi, K.S., Park, Y.A., 2000. Late Pleistocene macrotidal channel-fill sequence in the Kyunggi Bay, west coast of Korea. The 5th conference on tidal environments - Tidalite 2000 in Seoul. June 12-14, p.23.
 9. Choi, K.S., Choi, J.Y., Chang, N.S., Park, Y.A., 2000. A fining-upward sequence in the macrotidal flat, Saemangum area, west coast of Korea: implication for rapid sedimentation due to reclamation. The 5th conference on tidal environments - Tidalite 2000 in Seoul. June 12-14, p.24.
 8. Park, Y.A., Choi, K.S., 1999. Late Quaternary tidal deposits, Youngjong Island off the northwestern coast of Korea. XV International Congress - The environmental background to hominid evolution in Africa. INQUA (Cape Town, South Africa). '99.8.3-11.

7. Park, Y.A., Kim, B.O., Oh, I.S., **Choi, K.S.**, 1999. Seasonal changes in siliciclastic beach sedimentation along the eastern coast (Mangsang coastal zone) of Korea. IGCP 396 Continental shelves in the Quaternary 4th Annual Conference. UNESCO. International Union of Geological Sciences (Cape Town, South Africa), '99.7.28-8.2.
6. Park, Y.A., **Choi, K.S.**, 1999. Holocene and late Pleistocene Tidal Deposits off the Youngjong Island, Western Coast of Korea (Eastern Yellow Sea). International Workshop on Sediment Transport and Storage in Coastal Sea-Ocean System. Prof. Kenneth O. Emery Commemorative Workshop on Land-Sea Link in Asia. Tsukuba, Japan, 99.3.15-19, p.
5. **Choi, K. S.**, Park, Y.A., Kim, B.O., 1998. Late Pleistocene tidal rhythmites – their implication on paleotidal regime. The 4th International Symposium on the Marine Sciences of the Yellow Sea (ISMY-IV), Institute of Oceanology Chinese Academy of Sciences, Qingdao, China, 98.11.1-5, p.9.
4. Khim, B.K., **Choi, K.S.**, Park, Y.A., 1997. Textural and geochemical properties of the diagenetic siderite grains in the early Holocene tidal deposits: implications for depositional environments. Muddy Coasts '97, International Senckenberg Conference on Hydrology, Sedimentology, Geochemistry, and Ecology of Muddy Coasts, Wilhelmshaven, Germany, 97.9.1-5, p.119.
3. **Choi, K.S.**, Park, Y.A., 1997. Late Quaternary lithostratigraphy of sedimentary sequence developed adjacent to Youngjong-Yongyou Islands, west Korea. Muddy Coasts '97, International Senckenberg Conference on Hydrology, Sedimentology, Geochemistry, and Ecology of Muddy Coasts, Wilhelmshaven, Germany, 97.9.1-5, p.120. (**Won the 3rd Best Poster Presentation Award**)
2. **Choi, K.S.**, Park, Y.A., 1996. Lithostratigraphy and depositional environment of the coastal deposits in the Youngjong-do tidal flat, west coast of Korea. Tidalite 96, International Conference on Tidal Sedimentology, Savannah, Georgia, USA, 96.5.12-16, p.126.
1. Park, Y.A., **Choi, K.S.**, 1993. Depositional environments of the late Pleistocene marine deposits off the western coast of Korea. College Station, Pennsylvania, USA, 93. 8. 8-12 p.69.

PATENT

- Choi, K.S.**, Oh, C.R., Jo, J.H., 2014. Device for recovering sedimentary structures from undisturbed sediments from modern tidal flats (Patent Number 10-1418342).
- Choi, K.S.**, Oh, C.R., Jo, J.H., 2015. Coring device for undisturbed tidal-flat deposits (Patent Number 10-1500563).

RESEARCH GRANTED

- 2023-2028.** Development of risk managing technology tackling ocean and fisheries crisis around Korean Peninsula by Kuroshio Current (KIMST)/ US\$ 50,000/ Investigator.
- 2022-2026.** Development of living shoreline technology based on blue carbon science toward climate change adaptation. Korea Institute of Marine Science and Technology

(KIMST-20220526)/ US\$ 450,000/ Investigator.

2022-2027. Characterization of geomorphology and morphodynamics of tidal channel network in the macrotidal flats. National Research Foundation (NRF)/ US\$ 500,000/ Principal Investigator.

2021-2025. Development of advanced science and technology for marine environmental impact assessment. Ministry of Oceans and Fisheries (MOF)/ US\$ 200,000/ Investigator.

2017-2022. Integrated management of marine environment and ecosystems around Saemangeum. Ministry of Oceans and Fisheries (MOF)/ US\$ 280,000/ Investigator.

2017-2021. Development of blue carbon information system and its assessment for management. Ministry of Oceans and Fisheries (MOF)/ US\$ 200,000/ Investigator.

2017. Sediment excursion and seabed morphodynamics around EEZ sand-aggregate complex and Eocheong Island. Korea Water Resources Corporation (K-water)/ US\$ 120,000/ Principal Investigator.

2016-2018. Quantitative estimation of morphodynamics and sediment transport in the macrotidal environment based on UAV measurement and hydrodynamic observation. National Research Foundation (NRF)/ US\$ 100,000/ Principal Investigator.

2015-2019. Characterization of geomorphic variability of Kongsfjorden and Isfjorden in Svalbard. National Research Foundation (NRF)/ US\$ 350,000/ Principal Investigator.

2013-2016. Detailed survey on the coastal areas around LNG Production base (Tongyoung and Samcheok). Korea Gas Corporation (KOGAS)/ US\$ 260,000/ Investigator.

2013-2015. Development of evaluation technique of remaining hydrocarbon reserves of producing reservoir (Phase 2)/ Korea Institute of Energy Technology and Evaluation (KETEP)/ US\$ 550,000/ Principal Investigator.

2012-2013. Architectural development of inclined heterolithic stratification (IHS) and relevant hydrodynamics in a macrotidal channel, Gomso Bay, west coast of Korea/ Statoil Canada/ US\$ 35,300/ Principal Investigator.

2012-2013. Comparative studies on the architecture of inclined heterolithic stratification of Yeochari tidal flat, Ganghwa Island and Pebbley Beach Formation, Australia/ SNU / US\$ 13,000/ Principal Investigator.

2012-2013. Study on the hydrodynamic characteristics and morphologic stability of macrotidal channel/ Sea Grant/ Mokpo University/ US\$ 25,000/ Principal Investigator.

2011-2012. Morphologic change of intertidal flat and spatio-temporal variability of storm-generated deposits (Chenier)/ Honam Sea Grant/ Mokpo University/ US\$ 25,000/ Principal Investigator.

2011-2012. Sedimentology and stratigraphic architecture of reservoir rocks in Block VI-1, offshore SE Korea/ CCS/ KNOC/ US\$ 45,000/ Principal Investigator

2010-2011. Technical consultation on the database build-up of core image from Korean continental shelf/ Korea National Oil Corporation (KNOC)/ US\$ 21,000/ Principal Investigator.

2010-2011. Development Planning of tidal flat environment of Jeonnam/ Jeonnam Provincial Office/ US\$ 80,000/ Principal Investigator.

2010-2013. Development of evaluation technique of remaining hydrocarbon reserves of producing reservoir (Phase 1)/ Korea Institute of Energy Technology and Evaluation (KETEP)/ US\$ 2,130,000/ Principal Investigator.

2010. Research on the prospectivity of Iraqi basin/ Gyeonggi University/ US\$ 8,400/

Principal Investigator

- 2010.** Research on the variation of intertidal flat morphology and spatio-temporal variation of storm-induced deposits/ Mokpo University/ US\$ 25,000/ Principal Investigator.
- 2009-2011.** Research on the spatio-temporal variability of suspended sediments in the giant tidal bars of Gyeonggi Bay/ Korea Research and Development Institute of Oceanography (KORDI)/ US\$ 33,000/ Principal Investigator.
- 2008-2011.** Analysis of tidal reservoir system through modern analogue study of modern intertidal environment/ Korea Institute of Geoscience and Mineral Resources (KIGAM) / US\$ 133,000/ Principal Investigator.
- 2008.** Study on geo-characters of SW coastal areas vulnerable to inundation/ Korea Institute of Geoscience and Mineral Resources (KIGAM)/ US\$ 6,000/ Principal Investigator.
- 2007-2010.** Facies architecture and evolution of macrotidal estuarine channel bank deposit in Gomso Bay. Korea Research Foundation (KRF)/ US\$ 50,000/ Principal Investigator.
- 2007-2009.** Study on the reconstruction of heterolithic facies architecture of macrotidal estuarine channel bank deposit. Korea Science Technology Foundation (KOSEF)/ US\$ 56,000/ Principal Investigator.
- 2004.** Research on Precision Tracking of Reservoir Beds in Tidal Basins/ Ministry of Industry and Resources (MOCIE)/ US\$ 250,000/ Investigator contracted to KIGAM.
- 2001-2003.** Proximal-distal trends in tide-dominated depositional systems/ Force Tides Project sponsored by Statoil, Agip, ConocoPhillips, Dong, BP, ExxonMobil, Shell, and Total (FORCE)/ US\$ 300,000/ Investigator contracted to Queen's University
- 1999.** Research on the delineation of continental shelf/ Ministry of Marine and Fishery (MOMAF)/ US\$ 60,000/ Investigator contracted to Seoul National University

INTERNATIONAL FIELD TRIP EXPERIENCES

- 2024** Floy Canyon, (Cretaceous tidal succession), Green River, Utah, USA
Bay of Mont-Saint-Michel (Macrotidal Estuary, Embayment), Caen, France
- 2023** Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
Tremp-Graus Basin (Paleogene, fluvial, paleosol), Spain
Cretaceous, Panther tongue, Blackhawk formation, Castlegate sandstone, Ferron sandstone (fluvial, deltaic, shelf), Utah, USA
- 2022** Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
- 2020** Sittaung River (inshore tidal flats, river), Myanmar
- 2019** Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
Sittaung River (inshore tidal flats, river), Myanmar
- 2018** Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
Sittaung River (inshore tidal flats, river), Myanmar
- 2017** San Juan (mangroves), Philippine
Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
Sittaung River (inshore tidal flats, river), Myanmar
Cretaceous estuarine deposits, Drumheller, Canada
- 2016** Kampot (mangroves, beaches), Cambodia

	Kongsfjorden (modern fjord beach, spit), Svalbard
	Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
	Sittaung River (inshore tidal flats, river), Myanmar
2015	Kongsfjorden (modern fjord), Svalbard
	Isfjorden (modern fjord beach), Svalbard
	Sittaung River (inshore tidal flats, river), Myanmar
	West Floy Canyon (Big Horn Canyon), Green River, Utah, USA
2014	Pebbley Beach Formation (Permian tidal succession), Pebbley Beach, Australia
	Sittaung River (inshore tidal flats, river), Myanmar
	West Floy Canyon (Big Horn Canyon), Green River, Utah, USA
	Steepbank (Cretaceous tidal succession), Fort McMurray, AB, Canada
2013	Pebbley Beach Formation (Permian tidal succession), Pebbley Beach, Australia
	Severn estuary (Triassic rock succession and modern tidal flats), England
	Carboniferous Brimham Grit, North Yorkshire, England
	West Floy Canyon (Big Horn Canyon), Green River, Utah, USA
2012	Pebbley Beach Formation (Permian tidal succession), Pebbley Beach, Australia
	La Jolla beach turbidite succession, CA, USA
	Gironde estuary, Arcachon estuary, France
	West Floy Canyon (Big Horn Canyon), Green River, Utah, USA
2011	West Floy Canyon (Big Horn Canyon), Green River, Utah, USA
	Slope turbidite, carbonate slope and platform (Eocene), Ainsa, Spain
2010	West Floy Canyon (Cretaceous tidal succession), Green River, Utah, USA
	Willapa Bay (modern/Pleistocene meso-tidal deposits), Long Beach, WS, USA
	Steepbank (Cretaceous tidal succession), Fort McMurray, AB, Canada
	Patagonia (Miocene tidal succession), Trelew, Bariloche City, Argentina
2009	Mont-Saint-Michel Bay (Macrotidal Estuary, Embayment), Caen, France
	Mahuangshan (Tertiary and Quaternary loess deposits), Mahuangshan, China
2004	Mont-Saint-Michel Bay (Macrotidal Estuary, Embayment), Caen, France
2003	Sego, San Arroyo Sandstone (Cretaceous tidal succession), Colorado, USA
2002	Galveston (Barrier Island), Texas, USA
	Bay of Fundy (Macrotidal flat), Nova Scotia, Canada
	Wave-dominated Embayments along the east coast of Nova Scotia, Canada
	Qiantangjiang (Mesotidal Embayment), Hangzhou, China
2001	Albany (shelf to coastal succession), New York, USA
1996	Sapelo Island (Mesotidal Barrier, Backbarriers, Salt marshes), Savannah, Georgia, USA

E&P EXPERIENCES AND CONSULTATIONS

2024	China exploration block (Tarim Basin, Xinjiang) – Xinjiang Zhongjuli Oil & Gas development company
2013	Canada oil sand (Osum Energy) - DSME E&R
2012	Canada gas field (Maxhamish Field) - GEOCLEW
2011	Utah Oil Sand – DSME E&R
2010	Vietnam offshore oil field – DSME E&R
	Papua New Guinea onshore gas field – DSME E&R

- Nigeria offshore exploration block – DSME E&R
- 2009**
- Nigeria offshore mature oil field – DSME E&R
- China onshore mature oil field – DSME E&R
- Canada offshore gas-prone exploration block – DSME E&R
- Canada oil sand block – DSME E&R
- 2008**
- Russia onshore and offshore development and exploration block – DSME E&R
- Bolivia onshore exploration block – DSME E&R
- Congo, Republic, onshore development and exploration block – DSME E&R
- USA onshore oil field – DSME E&R
- 2007**
- Iraq onshore oil field – KNOC (Korea National Corporation)
- Congo, Republic, onshore oil field – DSME E&R
- Uzbekistan onshore exploration block – DSME E&R
- Russia onshore exploration block – DSME E&R
- 2006**
- Yemen onshore oil field - KNOC
- Canada oil sand block- KNOC
- Kazakhstan onshore exploration block - KNOC
- Iran offshore and onshore exploration block - KNOC
- Somalia onshore exploration block - KNOC
- Sudan onshore exploration block - KNOC
- 2005**
- Oman onshore exploration block - KNOC
- Qatar development block - KNOC
- Iraq regional prospectivity study - KNOC