

CURRICULUM VITAE: KYUNGSIK CHOI

Last updated August 2026

PERSONAL DATA



Position: Professor, Seoul National University

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E-mail: tidalchoi@snu.ac.kr Website: www.tidalchoi.org

Instagram: https://www.instagram.com/real_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 (Korea). Kyungsik earned his B.Sc., M.Sc., and Ph.D. in marine geology and sedimentology from the same institution. Following his doctoral studies, he conducted postdoctoral research at Queen's University in Canada under the supervision of Prof. Bob Dalrymple. Before returning to academia, Kyungsik worked for two years at the Korea National Oil Corporation, where he carried out geological characterization of heterolithic siliciclastic reservoirs in countries including Iraq, Iran, Vietnam, Kazakhstan, and Canada. In 2007, he began his academic career as a tenure-track position at Chonnam National University and later joined Seoul National University in 2012. His research focuses on the sedimentology and morphodynamics of tidal flats and fluvial-tidal systems such as estuaries and deltas, across a broad latitudinal range from tropical to Arctic regions. His work aims to predict the spatial and temporal evolution of tide-dominated sedimentary facies and stratigraphic architecture. His approach integrates modern process-based observations with outcrop and core analysis, employing advanced techniques such as high-precision RTK-GPS surveys, UAV-based photogrammetry, and *in-situ* measurements of currents and waves. Through extensive field campaigns in locations such as Myanmar, Svalbard, and Utah, he has investigated complex, non-linear interactions among tides, waves, and rivers, and vegetation in shaping channel morphodynamics and bar architecture within the fluvial-tidal transition zone. His recent studies also explore how sedimentary processes influence benthic

ecosystem stability-research with important implications for assessing ecosystem services, pollution resilience, and the blue carbon potential of unvegetated tidal flats. Kyungsik has published 57 peer-reviewed scientific papers in the top-tier international journals. Notably, Dalrymple and Choi (2007) in *Earth-Science Reviews* have been cited over 1282 times. He is also a co-author of the book *The Tide-dominated Han River Delta* (Elsevier, 2016). A member of the Society for Sedimentary Geology (SEPM) since 1991, he has served as a Global SEPM Ambassador since 2014. He is also a member of AAPG, IAS, and AGU. He started to serve IAS as a regional correspondent for Korea in 2026. Over the course of his career, he has supervised 11 graduate students on their theses and dissertations. In recognition of his contributions to national geoscientific efforts, he received a citation from the Korean Government in 2012 for his role in preparing classified technical materials and presentations for the UN Commission on the Limits of the Continental Shelf (CLCS). Kyungsik has devoted his academic career to understanding tide-influenced and tide-dominated depositional systems through sustained, field-based research in challenging environments. His work contributes to improved prediction of facies variability and stratigraphic architecture, reconstruction of system evolution, and evaluation of both natural and anthropogenic impacts under conditions of rapid global change.

Education and Outreach: Kyungsik has supervised a total of 5 Ph.D. theses (including 2 as a committee member), 17 master's theses (9 as a committee member), and 22 bachelor's theses at Seoul National University (SNU) and Chonnam National University. Notably, the Ph.D. thesis completed by his student, Dohyeong Kim, received the best Ph.D. Dissertation Award from the College of Natural Sciences at SNU in 2022. He is currently supervising three Ph.D. candidates. Each year, Kyungsik teaches two to three undergraduate courses, such as oceanography, marine geology, and sedimentology, as well as two to three graduate-level courses, including advanced tidal sedimentology, sequence stratigraphy, and basin analysis. Driven by a strong belief in the value of field experience for understanding coastal geomorphology and sedimentary processes, Kyungsik organizes annual field schools for undergraduate students. He has also led numerous field campaigns for graduate students both domestically and internationally, with research trips conducted in Korea as well as Myanmar (2014~2020), Svalbard (2015~2023), China (2019), Cambodia (2016), Philippines (2017), and Utah (2011~2014, 2018, 2024). In addition to his academic work, Kyungsik actively communicates scientific knowledge to the public and industry through lectures and media interviews, using accessible language. Internationally, he has contributed to capacity building and academic exchange. In 2015 and 2016, Kyungsik established a partnership with Dagon University in Myanmar, providing lectures, field equipment, and on-site training for faculty members. In 2017, he played a key role in initiating research collaboration between Seoul National University and the Arctic University of Norway in Tromsø for joint studies in the Arctic region. Kyungsik currently serves on the editorial board of *Sedimentary Geology* (since 2024) and as an associate editor for *Frontiers in Earth Science (Marine Geoscience)* (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
Regional Correspondent, 2026 – 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; 2026.7 – present

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, now with KEI (Korea Environment Institute)

HWANG, Yeonju Ph.D. 2023

BISSON, Luke MS 2024, now with Deloitte (Belfast, Northern Ireland)

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
KIM, Yoojeong 2025 MS
SEO, Hyunseo 2025 MS
KIM, Bumgi 2025 Ph.D.
KWON, Inha 2025 Ph.D.
KIM, Hosang 2025 Ph.D.
PARK, Shinyoung 2025 Ph.D.

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
DZIKRURROKHIM, Ridwan 2017-2018
GERALDINE, Maria Palacios Torres 2018
BUSHUEV, Esther 2018-2019
PHANTHOUAASA, Valaphone 2018-2020
YAJJU, Pradhan 2021-2022
RYU, Jongwon 2024
PARK, Myungshin 2025

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
 2025 Dokgotri tidal flat (SNU) May 17-18
 2025 Han River estuary (SNU) Nov. 8-9
 2026 Gomso tidal flat (SNU) May 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 (2009) 'Environment Special'. Moon and Life. Aired on Oct. 7.
(<https://www.youtube.com/watch?v=mhNDoke6b60>)
2. EBS (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>)
4. JTBC (2019) 'Spotlight' special investigating programme. Cry of Arctic. Aired on Sep. 19.
5. JTBC (2020) 'Spotlight' special investigating programme. Mystery of Bill. Aired on Jul. 2.
6. KBS (2022) KBS1 News 9. Aired on Aug. 16.
(<https://www.youtube.com/watch?v=R5FzpoVEITU>)
7. KBS (2022) KBS1 News 9. Aired on Aug. 17.
(<https://www.youtube.com/watch?v=1t8MFXayHCs>)
8. KBS (2022) 'KBS1 News 9'. Aired on Aug. 17.
(<https://www.youtube.com/watch?v=hLFmxK9Tr8c>)
9. KBS (2022) KLAB. Aired on Aug. 18.
(<https://www.youtube.com/watch?v=Pn3edczfMtl>)

10. KBS (2022) 'KBS1 Window - Warning from Arctic'. Aired on Aug 23.
(<https://www.youtube.com/watch?v=9pc7CDcjill>)
11. KBS (2022) KBS News Aired on August 27
(<https://www.youtube.com/watch?v=mzRrNonMPqE>)
12. KBS (2022) 'KBS1 News Square'. Aired on Sep. 3.
(<https://www.youtube.com/watch?v=vgCgRHvu0mc>)
13. KBS (2024) 'KBS1 News 9'. Aired on June 3.
(<https://www.youtube.com/watch?v=G52PITYNq88&t=11s>)
14. TV Chosun (2024) 'News 9'. Aired on June 4.
(<https://www.youtube.com/watch?v=AgfabmSbkZo&t=351s>)
15. The Jungang (2024) Published on June 4
(<https://www.joongang.co.kr/article/25253996>)
16. Hani (2024) Published on June 4
(https://www.hani.co.kr/arti/economy/economy_general/1143511.html)
17. TV Chosun (2024) 'News 9'. Aired on June 5
(<https://www.youtube.com/watch?v=xj3ag6xBmNM>)
18. Hani (2024) Published on June 5
(https://www.hani.co.kr/arti/economy/economy_general/1143605.html)
19. Hani (2024) Published on June 5
(https://www.hani.co.kr/arti/economy/economy_general/1143633.html)
20. Hani (2024) Published on June 7 (News Briefing)
(https://www.hani.co.kr/arti/society/society_general/1143861.html)
21. Hankyere21 (2024) Published on June 7
(https://h21.hani.co.kr/arti/politics/politics_general/55619.html)
22. JTBC News 뉴스들어가책 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=CzMqges95U8>)
23. JTBC News 뉴스들어가책 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=g8ctotYnP6w>)
24. JTBC News 오대영라이브 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=w-2FB4oHhj4&t=592s>)
25. JTBC News 뉴스룸 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=kwRwDarZKt8>)
26. MBC Radio 권순표 뉴스하이킥 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=2SgCaj3PWsM&t=4965s>)
27. CBS Radio 박재홍의 한판승부 (2024) Aired on June 7
(<https://www.youtube.com/watch?v=NHPqQQ-OUEI&t=801s>)
28. SBS Radio 김태현의 정치쇼 (2024) Aired on June 10
(<https://www.youtube.com/watch?v=t8VG4sBqwyU>)
29. MBC Radio 손에 잡히는 경제 (2024) Aired on June 10
(<https://www.youtube.com/watch?v=TJrzZDbbdXQ>)
30. The Jungang (2024) published on June 10
(<https://www.joongang.co.kr/article/25255193>)
31. Kukminilbo (2024) published on June 10
(<https://www.kmib.co.kr/article/view.asp?arcid=0020186595>)
32. Hankukilbo (2024) published on June 10
(<https://m.hankookilbo.com/News/Read/A2024061010420004627>)

33. SBS Biz 집중진단 (2024) Aired on June 12
(<https://www.youtube.com/watch?v=Qf4nKQhdd1E&t=11s>)
34. MBC Newsdesk (2024) Aired on June 12
(<https://www.youtube.com/watch?v=59mY0OFcA0w>)
35. CBS노컷뉴스 (2024) Published on June 12
(<https://www.nocutnews.co.kr/news/6158924>)
36. MBC Newsdesk (2024) Aired on June 13
(https://www.youtube.com/watch?v=_kfBIty82P4)
37. MTN 핫라인 5 (2024) Aired on June 13
(<https://www.youtube.com/watch?v=LMRRbcp7xEU>)
38. Hankyere TV 논썰 (2024) Aired on June 14
(<https://www.youtube.com/watch?v=i-UM5n2rL8o>)
39. Hankookilbo (2024) published on June 14
(<https://www.hankookilbo.com/News/Read/A2024061214480000253>)
40. Dongailbo (2024) published on June 14
(<https://www.donga.com/news/Politics/article/all/20240614/125437035/1>)
41. OhmyTV (2024) Aired on June 14
(<https://www.youtube.com/watch?v=7Sb34J-mI2s&t=7925s>)
42. MTN News (2024) published on June 14
(<https://news.mtn.co.kr/news-detail/2024061414332173263>)
43. KBS Radio 2 열린토론 (2024) Aired on June 19
(<https://www.youtube.com/watch?v=ova4KRcDrk8>)
44. JTBC (2024) 뉴스룸 Aired on June 19
(<https://www.youtube.com/watch?v=Fg7ZsPqkktI>)
45. SBS Premium (2024) Videomug 귀에 뽕종원 Aired on June 20
(<https://www.youtube.com/watch?v=LqnIFmb-VYc>)
46. Edaily TV (2024) Aired on June 21
(<https://www.youtube.com/watch?v=dWlavOO7aUE>)
47. 매일경제 (2024) Published on June 25
(<https://www.mk.co.kr/news/economy/11050349>)
48. CBS노컷뉴스 (2024) Published on June 26
(<https://www.nocutnews.co.kr/news/6167064>)
49. MBC Straight (2024) Aired on July 14
(<https://www.youtube.com/watch?v=iPZOJcXYd2I>)
50. 동아사이언스 (2024) Published on August 24
(<https://m.dongascience.com/news.php?idx=67106>)
51. TV Chosun News 9 (2024). Aired on December 20
(<https://www.youtube.com/watch?v=h0xhXbEh32g&t=2s>)
52. KTV News (2024) Aired on December 20
(<https://www.youtube.com/watch?v=HIXH7P5isSo>)
53. TV Chosun News 9 (2025). Aired on February 3
(https://www.youtube.com/watch?v=cJ4s2JMo_J4)
54. TV Chosun News 9 (2025). Aired on February 6
(<https://www.youtube.com/watch?v=vOTNrCGuZt8>)
55. KBS News (2025) Aired on February 6
(https://www.youtube.com/watch?v=V_FzJyAkIbA)

56. MBC News (2025) Aired on February 6
(<https://www.youtube.com/watch?v=VW84sUzaZbg>)
57. SBS News 8 (2025) Aired on February 6
(<https://www.youtube.com/watch?v=GtxJHjlmD4c>)
58. JTBC Newsroom (2025) Aired on February 6
(<https://www.youtube.com/watch?v=BfwXA0hhHtA>)
59. SBS News morning (2025) Aired on February 7
(<https://www.youtube.com/watch?v=wal66eNVBvg>)
60. KBS 뉴스광장 (2025) Aired on February 7
(<https://www.youtube.com/watch?v=2yIBXnEfLWU>)
61. JTBC Newsroom (2025) Aired on February 7
(<https://www.youtube.com/watch?v=34jtRhp9Blc>)
62. JTBC 아침& (2025) Aired on February 7
(<https://www.youtube.com/watch?v=GZWXb5D1XrU>)
63. YTN Radio 슬기로운 라디오 생활 (2025) Aired on February 10
(<https://www.youtube.com/watch?v=iwaLS-S0d8c>)
64. MBC 오늘 아침 (2025) Aired on February 11
(<https://www.youtube.com/watch?v=533vgCGevyA>)
65. SBS Biz 뉴스 (2025) Aired on March 27
(https://www.youtube.com/watch?v=_9DkTA-HJ7c)
66. SBS Morningwide (2025) Aired on July 17 풍혈
67. SBS Morningwide (2025) Aired on July 31 갯벌에 꽃힌 빨대의 비밀
68. SBS Morningwide (2025) Aired on September 3 미스터리 징검다리
69. MBC (2025) Published on September 20
(https://imnews.imbc.com/newszoomin/newsinsight/6758034_29123.html)
70. MBC 뉴스테스크 (2025) Aired on September 21
(https://www.youtube.com/watch?v=_RUWi4Sx3VE)
71. MBN 뉴스센터 (2025) Aired on September 21
(<https://www.youtube.com/watch?v=zv07L6Evn00>)
72. MBC 뉴스투데이 (2025) Aired on September 22
(<https://www.youtube.com/watch?v=GGNWO2P51HU>)
73. JTBC 뉴스룸 (2025) Aired on September 26
(https://www.youtube.com/watch?v=xN_hDzPIFxc)
74. JTBC 뉴스룸 (2025) Aired on October 17
(<https://www.youtube.com/watch?v=RjC6TYyFew0>)
75. MBC 스트레이트 (2025) Aired on October 19
(<https://www.youtube.com/watch?v=935wPb96iAg>)
76. JTBC 뉴스룸 (2025) Aired on October 23
(<https://www.youtube.com/watch?v=qNQNN3fCoq0>)
77. SBS Biz 뉴스 (2026) Aired on March 25
(<https://www.youtube.com/watch?v=kBF1IOO1930>)
78. CNA (Channel NewsAsia) Tides of Time (2026) Aired on March 30
(https://www.youtube.com/watch?v=3U_qkp6oRYs&t=1681s)

RESEARCH PUBLICATIONS (1995-2026)

(corresponding author in bold character/IF: 2020 Impact Factor)

Citations **3778**, h-index **26**, i10-index **41** (as of August 23, 2026)

57. Bang, S., Jo, J., Kim, D., Sohn, S., **Choi, K.S.**, 2026. Multi-timescale controls on surface sediment distribution in a channelized open-coast macrotidal flat, southern Ganghwa Island, western Korea. **Marine Geology** 501, 107883.
56. Kim, Y.E., Yoon, S.J., Kim, T.W., Kwon, I., Kim, H., Lee, C., Yi, G., Bang, S., Choi, K.S., Kwon, B.-O., Khim, J.S., 2026. Cross-shore heterogeneity in organic carbon storage and source composition in bare tidal flats of South Korea. **Marine Pollution Bulletin** 232, 120049.
55. Jo, J., Kim, D., Sohn, S., Bang, S., **Choi, K.S.**, 2026. Anthropogenic and natural impacts on seasonal variations in surface sediment distribution and stratigraphy in semi-enclosed macrotidal flats on the western coast of Korea. **Regional Studies in Marine Science** 93, 104704. **Citations: 1**
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). **Citations: 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. Citations: 5**
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: 28**
51. Kim, D., Jo, J., Nam, S.-I., **Choi, K.S.**, 2022. Morodynamic evolution of paraglacial spit complexes on a tide-influenced Arctic fjord delta (Dicksonfjorden, Svalbard). **Marine Geology** 447, 106800 (IF: 3.548). **Citations: 12**
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: 11**
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: 14**
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: 16**

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 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 Clinoform 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

2025-2028. Real-time monitoring of tidal modulation in fluivo-estuarine sedimentary dynamics in micro- and macro-tidal systems (RETIDE) (NRF)/ US\$ 70,000/ Principal Investigator.

2023-2028. Development of risk managing technology tackling ocean and fisheries crisis around Korean Peninsula by Kuroshio Current (KIMST)/ US\$ 20,000/ 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

- 2026** Robbins Passage, West Inlet, East Inlet, Big Bay (microtidal backbarrier system), Northwestern Tasmania, Australia
Onaero, Rapanui Beach (Miocene Coastal to Deep Sea deposits), New Zealand
- 2025** Lourinhã Formation (Late Jurassic, fluvial-tidal transition), Peniche, Portugal
Zagra Strait (Miocene, Seaway), Zagra, Spain
- 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
Trempealeau Basin (Paleogene, fluvial, paleosol), Spain
Cretaceous, Panther tongue, Blackhawk formation, Castlegate sandstone, Ferron sandstone (fluvial, deltaic, shelf), Utah, USA
Lower Dir Abu Lifa Member (Eocene, tide-dominated delta), Western Desert, Egypt
- 2022** Dicksonfjorden (modern fjord tidal flat, river, spit), Svalbard
Fitzroy River Estuary (Macrotidal Estuary), Derby, Australia
Matakohe tidal flat (Mesotidal Estuary), Matakohe, New Zealand
Parirau tidal flat (Mesotidal Estuary), Parirau, New Zealand
- 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), Philippines
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