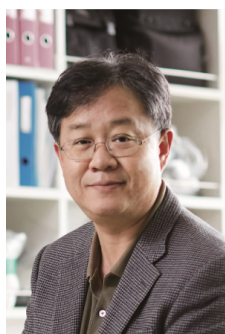


CURRICULUM VITAE: KYUNGSIK CHOI

Last updated May 2022

PERSONAL DATA



Position: Associate Professor, Seoul National University

Address: Room 511, Building 25-1, School of Earth and Environmental Sciences, Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Korea

Telephone: +82-2-880-6748 (Office)/ +82-10-8210-2615 (Mobile)

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

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 an associate 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 43 peer-reviewed scientific papers in the various top-ranked international journals, including

‘Dalrymple and Choi (2007)’ in Earth-Science Reviews cited 875 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 2 Ph.D. thesis (1 as a committee member), 11 master theses (4 as a committee member), and 21 bachelor theses in Seoul National University and Chonnam National University. The Ph.D. thesis completed by Dohyeong Kim won the best Ph.D. award in the class of 2022. Currently, Kyungsik supervises five 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 (2015~2019), China (2019), Cambodia (2016), Philippines (2017), and Utah (2011~2014). 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.

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

2001.8-2004.4	Postdoctoral fellow	Development Institute 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-present	Associate 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

Frontiers in Earth Science: Review Editor, 2021 – present

Ocean Science Journal: Associate Editor, 2013 – 2019

FELLOWSHIPS GRANTED

Predocotrinal 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

IRIN, Siti Marina Ph.D. due to graduate Spring 2023, now with Geological Agency of Indonesia

JO, Joohee Ph.D. due to graduate Spring 2023

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.

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
PHANTHOULAASA, Valaphone 2018-2020
YAJJU, Pradhan 2021-2022

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

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

- KBS (Korea Broadcasting System) (2009) ‘Environment Special’. Moon and Life. Aired on Oct. 7.
- EBS (Education Broadcasting Company) (2014) ‘Education Report ON’. Aired on Feb. 9.
- NATURE (2015) Yellow Sea talks raise hopes for marine science. Vol. 528, 318 – 319.
- JTBC (Jungang Broadcasting Company) (2019) ‘Spotlight’ special investigating programme. Cry of Antarctica. Aired on Sep. 19.
- JTBC (Jungang Broadcasting Company) (2020) ‘Spotlight’ special investigating programme. Mystery of Bill. Aired on Jul. 2.

RESEARCH PUBLICATIONS (1995-2022)

(* corresponding author/IF: 2020 Impact Factor)

Citations **2173**, h-index **21**, i10-index **30** (as of May 9, 2022)

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).
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)
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: 1**
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: 2**
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: 7**
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: 4**
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: 2**

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: 14**
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: 3**
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: 45**
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: 81**
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: 7**
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: 9**
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: 10**
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: 48**
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: 21**
35. Jo, J.H., **Choi, K.S.***, 2016. Hydrodynamics and morphodynamics of tidal compound dunes in the open coast macrotidal flat, northern Gyeonggi Bay, west coast of Korea – role of waves and tidal currents. **Journal of Sedimentary Research** 86, 1103–1122. **Citations: 6**
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: 12**
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: 26**
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: 32**
 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: 15**
 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: 31**
 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: 27**
 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: 37**
 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: 183**
 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: 34**
 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: 31**
 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: 9**
 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: 13**
 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: 54**
 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: 897**

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: 31**
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: 32**
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: 67**
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: 142**
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: 45**
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: 32**
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: 33**
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: 42**
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: 8**
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: 15**
 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 rhythmmites from the upper Pleistocene sedimentary sequence, western coast of Korea. **J. Korean Soc. of Oceanography** 33, 71-79. **Citations: 14**
 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., 2022. 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., 2022. 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., 2022. 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., 2022. 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., 2022. Rapid accumulation of early Holocene tidal rhythmmites in the paleo-Han River estuary, Korea: Evidence of intensified summer monsoon. **Marine Geology**.
6. 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. **Marine Geology**.

NONREFEREED PUBLICATIONS

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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

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

- 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

- 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