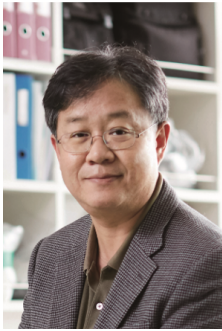


# CURRICULUM VITAE: KYUNGSIK CHOI

Last updated March 2024

## PERSONAL DATA



**Position:** Associate Professor, Seoul National University

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E-mail: [tidalchoi@snu.ac.kr](mailto:tidalchoi@snu.ac.kr) Website: [www.tidalchoi.org](http://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 46 peer-reviewed scientific papers in the various top-ranked international journals, including

‘Dalrymple and Choi (2007)’ in Earth-Science Reviews cited 1034 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 4 Ph.D. theses (2 as a committee member), 15 master theses (6 as a committee member), and 21 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.

## 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
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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-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**

**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**

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 (1<sup>st</sup> year), Marine Geology (2<sup>nd</sup> year), Sedimentology (3<sup>rd</sup> year), Petroleum Geology (4<sup>th</sup> year), Advanced Tidal Sedimentology, Basin Analysis (graduate)

**2012.9 – present: Seoul National University:** Oceanography (1<sup>st</sup> year), Marine Geology (2<sup>nd</sup> year), Sedimentology (3<sup>rd</sup> 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. due to graduate Fall 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

## 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  
2024 Nakdong river delta (SNU) Apr. 22-24 (scheduled)

### **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.
- KBS (Korea Broadcasting System) (2022) ‘KBS1 News 9’. Aired on Aug. 17.
- KBS (Korea Broadcasting System) (2022) ‘KBS1 Window - Warning from Arctic’. Aired on Aug 23.
- KBS (Korea Broadcasting System) (2022) ‘KBS1 News Square’. Aired on Sep. 3.

### RESEARCH PUBLICATIONS (1995-2024)

(\* corresponding author/IF: 2020 Impact Factor)

Citations **2833**, h-index **24**, i10-index **36** (as of May 7, 2024)

54. Bisson, L.S., **Choi, K.S.**, 2024. Climate control on the channel morphodynamics of the Sittaung River, Myanmar. **Scientific Reports** 14, 7524.
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: 5**
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: 4**
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: 5**

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: 6**
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: 35**
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: 9**
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: 27**
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: 5**
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: 115**
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: 194**
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: 20**
  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: 29**
  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: 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: 34**
  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: 41**
  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: 39**
  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: 34**
  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 Gomsu Bay, west coast of Korea: implication for the architectural development of inclined heterolithic stratification. **Marine Geology** 346, 343-354. **Citations: 43**
  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: 228**
  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: 41**
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: 36**
  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: 14**
  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: 61**
  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: 1058**
  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: 34**
  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: 22**
  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: 36**
  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: 71**
  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: 157**
  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: 52**

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: 43**
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**
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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**
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20. Dalrymple, R.W., Cummings, D., Jin, J.H., **Choi, K.S.**, 2008. The Clinof orm 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. 31<sup>st</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 4<sup>th</sup> International Symposium on the Marine Sciences of the Yellow Sea (ISMV-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 3<sup>rd</sup> 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 Pebbly 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**

- 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
- 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** Segoo, 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