



# César Ducruet

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## Axe de recherche

Transitions, Environnement, Énergie, Institutions, Territoires

## Thème(s)

Intégration territoriale; Relations multiscalaires; Mondialisation; Indicateur socio-économique

HAL: [Lien](#)



## Présentation

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### STATUT ET SITUATION ACTUELLE

Directeur de recherche au CNRS / Economix

### CHAMPS ET THEMES DE RECHERCHE

Géographie et science régionale, analyse de réseau, ports et transport maritime, intégration de la supply chain, développement territorial, santé et environnement

### TRAVAIL EN COURS

Influence de l'espace sur la structure des réseaux

Décroissance de la connectivité dans un contexte de crise

Impacts des activités portuaires sur la santé des populations locales

### CURSUS

**2016** HDR en géographie, Université Paris I Panthéon-Sorbonne

[La spatialité des réseaux maritimes. Contributions maritimes à l'analyse des réseaux en géographie](#)

**2004** Doctorat de géographie, Université du Havre

[Les villes-ports, laboratoires de la mondialisation](#)

## **PARCOURS PROFESSIONNEL**

**2017 - 2021** Directeur de recherche au CNRS / Géographie-cités

**2009 - 2017** Chargé de recherche au CNRS / Géographie-cités

**2007 - 2008** Chercheur Marie Curie EIF-FP6 à Erasmus University Rotterdam

**2005 - 2006** Chercheur au Korea Research Institute for Human Settlements (KRIHS)

## **PRIX ET DISTINCTIONS**

**2009** Marie Curie Reintegration Grant (ERG), 'Maritime systems'

**2012** Prime d'Excellence Scientifique, CNRS

**2017** Lettre de félicitations - Prix Amiral Daveluy, Centre d'études stratégiques de la Marine

## **ACTIVITES COLLECTIVES**

Membre associé de [PortEconomics](#)

Membre de [PortCityFutures](#)

Membre du comité scientifique de [RETE Association](#)

Area Editor : [Networks and Spatial Economics](#)

Membre du comité de lecture : Journal of Transport Geography, Maritime Business Review, Portus, International Journal of Transport Economics, WMU Journal of Maritime Affairs

## **PROJETS DE RECHERCHE - Porteur**

**2023 - 2026** Agence Nationale de la Recherche (ANR) AAPG '[MAGNETICS](#)', Maritime Globalization, Network Externalities, and Transport Impacts on Cities

**2013 - 2019** European Research Council (ERC) Starting Grant No. 313847 '[World Seastems](#)'

**2011 - 2012** ESPON-TIGER, WP2.3.5 'Maritime flows', [Territorial Impact of Globalization on Europe and its Regions \(TIGER\)](#)

**2010** CNRS-Projet Exploratoire Premier Soutien (PEPS), Structure et évolution du système maritime mondial (1946-2010)

**2007 - 2008** Marie Curie EIF-FP6, [Towards a comparison of European port-city dynamics](#)

## **PROJETS DE RECHERCHE - Participant**

**2018 - 2023** Japan External Trade Organization (JETRO-IDE), [Empirical studies on structure and evolution of maritime networks](#)

**2016 - 2017** Japan External Trade Organization (JETRO-IDE), [Comparative studies of trends in regional structures](#)

**2012 - 2015** Natural Science Foundation of China, Project No. 41171108, Logistics integration of ports in transport and value chains

**2011 - 2013** Caisse des Dépôts et Consignations de Paris, Villes portuaires et développement durable au Maghreb

**2010 - 2011** DATAR, [Analyse Comparée des Métropoles Européennes](#) (ACME)

## **EXPERTISE**

**2021** Korea Maritime Institute, "Port and shipping dynamics of North Korea"

**2021** Organisation Mondiale de la Santé, "Health impacts of onshore and offshore activities in sea-port cities"

**2019** Korea Maritime Institute, "Cold chain analysis Antwerp / Rotterdam"

**2017** World Bank, "[Maritime Connectivity for Freight Transport in the Mediterranean connectivity model](#)"

**2014** OECD, "[The competitiveness of global port-cities](#)"

## **DIFFUSION GRAND PUBLIC**

**2025** [How globalization reshaped global trade - and our cities](#), EconPol Forum, avril

**2024** [Ports ultramarins : une transition écologique nécessaire](#), Outremer360°, 26 juillet

**2024** [All aboard: The effects of port development](#), VoxDev, 25 avril

**2023** [Du Pirée à Hambourg : l'Europe sous influence chinoise ?](#), France Culture/Cultures Monde, 03 janvier

- 2022** [Un panel d'outils pour décarboner les ports](#), Polytechnique Insights
- 2022** [Shipping: Covid Charts a New Course For Maritime Transport](#), Silverbird, 31 janvier
- 2022** [Une nouvelle lecture des relations ville-port en France](#), Chaîne EconomiX, 24 janvier
- 2021** [Les ports mettent le cap sur l'environnement](#), France Culture, 26 Novembre
- 2021** [Les relations ville-port et les réseaux maritimes](#), Institut de l'Océan de l'Alliance Sorbonne Université, 10 Octobre
- 2021** [Ports et territoires, quelles analyses croisées ?](#), Chaîne EconomiX, 7 juin
- 2021** [Routes maritimes : des grandes voies de passage à la tentation de l'Arctique](#), France Culture, 1 Avril
- 2014** [Les grands ports mondiaux](#), Radio France International, 14 Novembre
- 2013** [Sur les quais des grands ports du monde](#), France Culture, 8 avril

[Toutes publications sur hal-shs](#)

## Documents de travail

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HAL: [Lien](#)

02/2026 - Maritime traffic specialization and environmental health impacts in European port cities  
Charbel ALKHOURY, César Ducruet, Magali Dumontet, Mariantonia Lo Prete, Barbara Polo Martin, Ling Sun, Sheng Zhang

02/2026 - Fostering energy transition and transport fluidity in European port cities  
César Ducruet, Mariantonia Lo Prete

04/2025 - Port-city evolution in the long run (1880-2020): global and regional trends  
César Ducruet, Barbara Polo Martin

03/2025 - Shipping Network Research: A Systematic and Quantitative Review  
César Ducruet, Marc-Antoine Faure

06/2024 - Shipping Trade and Geopolitical Turmoils: The Case of the Ukrainian Maritime Network  
Fabio Cremaschini, César Ducruet, Marc-Antoine Faure, Bárbara Polo Martin

09/2023 - Ports and their influence on local air pollution and public health: a global analysis  
César Ducruet, Hidekazu Itoh, Mariantonia Lo Prete, Yoann Pigné, Bárbara Polo Martin, Mame Astou Séné, Ling Sun

09/2023 - Structural change in the world maritime network (1880-2020): globalization, optimization, and vulnerability  
César Ducruet, Hidekazu Itoh, Bruno Marnot, Barbara Polo Martin, Elyass Sayd, Dimitris Tsiotas

05/2022 - Maritime trade and economic development in North Korea  
César Ducruet, In Joo Yoon

05/2022 - Inland cities, maritime gateways, and international trade  
César Ducruet, David Guerrero

05/2022 - Spatial network analysis of container port operations: the case of ship turnaround times  
César Ducruet, Hidekazu Itoh

05/2022 - The spatial determinants of innovation diffusion: evidence from global shipping networks  
César Ducruet, Hidekazu Itoh

09/2021 - Port-city linkages and multi-level hinterlands: the case of France  
Mounir Amdaoud, César Ducruet, Marc-Antoine Faure

## Publications

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**HAL:** [Lien](#)

**2026** - Sheng Zhang, César Ducruet, Liehui Wang, Dongping Song. The influence of port proximity on air pollution and public health in the world's cities. *Cities*, 2026, 175, pp.107032. (10.1016/j.cities.2026.107032). (halshs-05625174)  
<https://shs.hal.science/halshs-05625174v1>

**2026** - Bárbara Polo-Martín, Daniel Castillo-Hidalgo, César Ducruet. Transport Connectivity and Urban Development: The Case of Africa (1880–2020). *Geographical Analysis*, 2026, 58 (1), (10.1111/gean.70028). (halshs-05452369)  
<https://shs.hal.science/halshs-05452369v1>

**2026** - Charbel Alkhoury, César Ducruet, Magali Dumontet, Mariantonia Lo Prete, Barbara Polo Martin, et al.. Maritime traffic specialization and environmental health impacts in European port cities. 2026. (hal-05532836)  
<https://hal.science/hal-05532836v1>

**2026** - César Ducruet, Mariantonia Lo Prete. Fostering energy transition and transport fluidity in European port cities. 2026. (hal-05497064)  
<https://hal.science/hal-05497064v1>

**2025** - Marc-Antoine Faure, César Ducruet. Cluster detection in maritime networks. Beatrice Moretti. *Landscapes of the Cluster: A Spatial Approach to Ports*, Jovis Verlag, pp.232-238, 2025, 978-3986121792. (halshs-05452379)  
<https://shs.hal.science/halshs-05452379v1>

**2025** - Marc-Antoine Faure, César Ducruet. The Blue Connection. A Systematic and Critical Review of Shipping Network Research. *Networks and Spatial Economics*, 2025, (10.1007/s11067-025-09705-y). (hal-05286865)  
<https://hal.science/hal-05286865v1>

**2025** - Han Su, Liehui Wang, Sheng Zhang, Debin Du, César Ducruet. From fragmentation to integration: Evolving community structure of the Asia-Pacific shipping network since 1890. *Journal of Transport Geography*, 2025, 128, pp.104370. (10.1016/j.jtrangeo.2025.104370). (halshs-05218271)  
<https://shs.hal.science/halshs-05218271v1>

**2025** - Bárbara Polo Martin, Marc-Antoine Faure, Fabio Cremaschini, César Ducruet. Shipping trade and geopolitical turmoil: The case of the Ukrainian Maritime network. *Journal of Transport Geography*, 2025, 128, pp.104342. (10.1016/j.jtrangeo.2025.104342). (hal-05410510)  
<https://hal.science/hal-05410510v1>

**2025** - Marc-Antoine Faure, César Ducruet. Shipping Network Research: A Systematic and Quantitative Review. 2025. (hal-05106768)  
<https://hal.science/hal-05106768v1>

**2025** - Ling Sun, Jingyi Zhang, César Ducruet, Hidekazu Itoh, Xiangqi Liu. The impact of shipping activities on air quality and residents' health in China's port cities. *Journal of Transport Geography*, 2025, 123, pp.104099. (10.1016/j.jtrangeo.2024.104099). (halshs-04838170)  
<https://shs.hal.science/halshs-04838170v1>

**2025** - César Ducruet, Dimitris Tsiotas, Bruno Marnot, Barbara Polo Martin, Hidekazu Itoh, et al..

Structural change in the world maritime network (1880-2020): globalization, optimization, and vulnerability. 2025. (hal-05000113)  
<https://hal.science/hal-05000113v1>

2025 - César Ducruet, Barbara Polo Martin. Port-city evolution in the long run (1880-2020): global and regional trends. 2025. (hal-05072548)  
<https://hal.science/hal-05072548v1>

2024 - César Ducruet, Réka Juhász, Dávid Krisztián Nagy, Claudia Steinwender. All aboard: The effects of port development. *Journal of International Economics*, 2024, 151, pp.103963. (10.1016/j.jinteco.2024.103963). (halshs-04651432)  
<https://shs.hal.science/halshs-04651432v1>

2024 - Bárbara Polo Martin, César Ducruet. The global transport network in space and time. *Portus*, 2024, *Across the Waves*, 47, <https://portusonline.org/the-global-transport-network-in-space-and-time/>. (halshs-04663232)  
<https://shs.hal.science/halshs-04663232v1>

2024 - Bárbara Polo-Martín, César Ducruet. Coupled connectivity in the global complex network: the case of United Kingdom (1880–1925). *Applied Network Science*, 2024, 9 (1), pp.15. (10.1007/s41109-024-00622-6). (halshs-04571237)  
<https://shs.hal.science/halshs-04571237v1>

2024 - César Ducruet, Bárbara Polo Martin, Mame Astou Sene, Mariantonia Lo Prete, Ling Sun, et al.. Ports and their influence on local air pollution and public health: A global analysis. *Science of the Total Environment*, 2024, 915, pp.170099. (10.1016/j.scitotenv.2024.170099). (halshs-04407981)  
<https://shs.hal.science/halshs-04407981v1>

2024 - Ling Sun, Xiangqi Liu, Zijiang Hu, Jingyi Zhang, César Ducruet, et al.. Does just transition increase social and environmental risks? Evidence from global port cities development. *Environmental Impact Assessment Review*, 2024, 105, pp.107370. (10.1016/j.eiar.2023.107370). (halshs-04314390)  
<https://shs.hal.science/halshs-04314390v1>

2024 - Naixia Mou, Huanqing Xu, Yong Liu, Guoqing Li, Lingxian Zhang, et al.. Does the Chinese coastal ports disruption affect the reliability of the maritime network? Evidence from port importance and typhoon risk. *International Journal of Applied Earth Observation and Geoinformation*, 2024, 129, pp.103846. (10.1016/j.jag.2024.103846). (halshs-04665720)  
<https://shs.hal.science/halshs-04665720v1>

2024 - César Ducruet, Mariantonia Lo Prete, Bárbara Polo Martin, Mame Astou Séné. Environnement et santé dans les villes portuaires : quelles données pour une analyse comparative au niveau mondial ?. Yann Alix; Pierre Cariou; Jacques Paquin. *L'intelligence portuaire : opération, innovation, projection*, Editions EMS, pp.265-286, 2024, *Les Océanides*. (halshs-04492364)  
<https://shs.hal.science/halshs-04492364v1>

2024 - César Ducruet. Les ports français dans la mondialisation, des handicaps structurels ?. Thomas Merle. *Les littoraux français*, *Atlande*, pp.169-180, 2024, 978-2-35030-932-3. (halshs-04654169)  
<https://shs.hal.science/halshs-04654169v1>

2024 - Bárbara Polo Martin, Marc-Antoine Faure, Fabio Cremaschini, César Ducruet. Shipping Trade and Geopolitical Turmoils. 2024. (hal-04660640v2)  
<https://hal.science/hal-04660640v2>

2024 - César Ducruet, In Joo Yoon. Maritime trade and economic development in North Korea. 2024.

(hal-04159805)

<https://hal.science/hal-04159805v1>

2024 - César Ducruet, In Joo Yoon. Maritime trade and economic development in North Korea. Journal of Transport Geography, 2024, 120, pp.103990. (10.1016/j.jtrangeo.2024.103990). (hal-04689246)  
<https://hal.science/hal-04689246v1>

2023 - César Ducruet, Theo E. Notteboom. Port Systems in Global Competition. Routledge, 2023, Routledge Studies in Transport Analysis, 9781032327730. (halshs-04194431)  
<https://shs.hal.science/halshs-04194431v1>

2023 - César Ducruet, Theo E. Notteboom. A systematic and critical review of port system research. César Ducruet; Theo Notteboom. Port Systems in Global Competition. Spatial-Economic Perspectives on the Co-Development of Seaports, Routledge, pp.13-54, 2023, Routledge Studies in Transport Analysis, 9781003316657. (10.4324/9781003316657-3). (halshs-04194563)  
<https://shs.hal.science/halshs-04194563v1>

2023 - César Ducruet, Bárbara Polo Martin, Mame Astou Séné, Mariantonia Lo Prete, Ling Sun, et al.. Ports and their influence on local air pollution and public health: a global analysis. 2023. (hal-04313152)  
<https://hal.science/hal-04313152v1>

2023 - César Ducruet. Ports and their influence on local air pollution and public health. Globalization, Shipping and Trade workshop, 2023, Paris, Unknown Region. (hal-04292932)  
<https://hal.science/hal-04292932v1>

2023 - César Ducruet. Port city dynamics since 1880: a maritime network perspective. Port Cities in Comparative Global History: Potentials and Issues, 2023, Hong Kong, Unknown Region. (hal-04292934)  
<https://hal.science/hal-04292934v1>

2023 - César Ducruet, Elena Cocuzza, Matteo Ignaccolo. Analysis of the maritime networks: criticalities and resilience. Transportation Research Procedia, 2023, 69, pp.878-885. (10.1016/j.trpro.2023.02.248). (halshs-04194432)  
<https://shs.hal.science/halshs-04194432v1>

2023 - César Ducruet. Relational turns in geography and elsewhere: the case of ports, port systems, and shipping networks. Investigating & Recording the Port-Cluster Landscape: Call for Words, 2023, Gênes, Unknown Region. (hal-04292931)  
<https://hal.science/hal-04292931v1>

2023 - César Ducruet, Theo E. Notteboom, Brian Slack. Port migration patterns in the global seaport system since the 1950s. César Ducruet; Theo E. Notteboom. Port Systems in Global Competition. Spatial-Economic Perspectives on the Co-Development of Seaports, Routledge, pp.122-146, 2023, 9781003316657. (10.4324/9781003316657-9). (halshs-04588346)  
<https://shs.hal.science/halshs-04588346v1>

2023 - César Ducruet. Shipping network analysis: state-of-the-art and application to the global financial crisis. César Ducruet; Theo E. Notteboom. Port Systems in Global Competition. Spatial-Economic Perspectives on the Co-Development of Seaports, Routledge, pp.300-333, 2023, Routledge Studies in Transport Analysis, 9781003316657. (10.4324/9781003316657-20). (halshs-04588340)  
<https://shs.hal.science/halshs-04588340v1>

2023 - César Ducruet. Les petits ports dans les réseaux maritimes. DEVPORT 2023 - Quelle place pour les ports territoriaux dans le système maritime de demain ?, 2023, Le Havre, Région

indéterminée. (hal-04292930)  
<https://hal.science/hal-04292930v1>

2023 - César Ducruet. Port systems and maritime networks: a relational turn?. International Symposium on Disciplinary Development and Innovation of Transport Geography 2023, 2023, Chine, Unknown Region. (hal-04292933)  
<https://hal.science/hal-04292933v1>

2022 - César Ducruet, David Guerrero. Inland cities, maritime gateways and international trade. Journal of Transport Geography, 2022, 104, pp.103433. (10.1016/j.jtrangeo.2022.103433). (hal-03764224)  
<https://hal.science/hal-03764224v1>

2022 - César Ducruet, Mariantonia Lo Prete. A sustainability analysis of European port cities. IGU PARIS 2022 TIME FOR GEOGRAPHERS The Centennial Congress, Jul 2022, Paris, France. (hal-04401080)  
<https://hal.science/hal-04401080v1>

2022 - César Ducruet, Hidekazu Itoh. Spatial Network Analysis of Container Port Operations: The Case of Ship Turnaround Times. Networks and Spatial Economics, 2022, (10.1007/s11067-022-09570-z). (halshs-03719064)  
<https://shs.hal.science/halshs-03719064v1>

2022 - César Ducruet, Elyakim Ben-Hakoun, Mariantonia Lo Prete, Katharina Wabnitz, Viola Graef, et al.. An overview of the WHO report on environment and health in seaport cities: key findings and research gaps. 2nd WHO-UfM Joint Webinar on "Environment and health in seaport cities", UfM-WHO Europe, Jul 2022, Brussels, Belgium. (hal-04400640)  
<https://hal.science/hal-04400640v1>

2022 - César Ducruet, Mariantonia Lo Prete. Environnement et santé dans les villes portuaires européennes : des impacts aux solutions. IVe congrès international du GIS d'Histoire & Sciences de la mer, May 2022, Nice, France. (hal-04292909)  
<https://hal.science/hal-04292909v1>

2022 - César Ducruet, Hidekazu Itoh. The spatial determinants of innovation diffusion: Evidence from global shipping networks. Journal of Transport Geography, 2022, 101, pp.103358. (10.1016/j.jtrangeo.2022.103358). (halshs-03719062)  
<https://shs.hal.science/halshs-03719062v1>

2022 - César Ducruet, Theo Notteboom. Revisiting port system delineation through an analysis of maritime interdependencies among seaports. GeoJournal, 2022, (10.1007/s10708-020-10341-x). (halshs-03029876)  
<https://shs.hal.science/halshs-03029876v1>

2022 - César Ducruet. Port specialization and connectivity in the global maritime network. Maritime Policy and Management, 2022, 49 (1), pp.1-17. (10.1080/03088839.2020.1840640). (halshs-02986104)  
<https://shs.hal.science/halshs-02986104v1>

2022 - César Ducruet. Environnement et santé dans les villes portuaires européennes. Journée Nationale de la Recherche Portuaire, 2022, Paris, Région indéterminée. (hal-04292902)  
<https://hal.science/hal-04292902v1>

2022 - César Ducruet. Changing nature of illicit networks and supply chains. Extracting and analysing shipping network data. BRIMPACT: Understanding the impact of China's Belt and Road initiative (BRI)

on illicit supply chains, 2022, Londres, Unknown Region. (hal-04292906)  
<https://hal.science/hal-04292906v1>

2022 - César Ducruet, David Guerrero. Inland cities, maritime gateways, and international trade. 2022. (hal-04159806)  
<https://hal.science/hal-04159806v1>

2022 - César Ducruet, Hidekazu Itoh. Spatial network analysis of container port operations: the case of ship turnaround times. 2022. (hal-04159808)  
<https://hal.science/hal-04159808v1>

2022 - César Ducruet. Infrastructures et développement des territoires. Concepts, modèles, et applications. Les rendez-vous de l'économie territoriale, 2022, en ligne, Région indéterminée. (hal-04292904)  
<https://hal.science/hal-04292904v1>

2022 - Mounir Amdaoud, César Ducruet, Marc-antoine Faure. The mutual specialization of port and urban functions: The case of France. Papers in Regional Science, 2022, 101 (2), pp.439 - 460. (10.1111/pirs.12659). (halshs-03719089)  
<https://shs.hal.science/halshs-03719089v1>

2022 - César Ducruet, Hidekazu Itoh. The spatial determinants of innovation diffusion: evidence from global shipping networks. 2022. (hal-04159810)  
<https://hal.science/hal-04159810v1>

2021 - César Ducruet, Theo E. Notteboom. Global maritime networks in container shipping. Dong-Wook Song; Photis Panayides. Maritime Logistics. A Guide to Contemporary Shipping and Port Management, , 2021. (halshs-03912871)  
<https://shs.hal.science/halshs-03912871v1>

2021 - César Ducruet, Mariantonia Lo Prete. European port cities: between congestion and pollution. ICoSCaL21 : International Conference on Smart Corridors and Logistics, ILI-VS Institut pour une logistique intelligente en Vallée de Seine Université Le Havre Normandie, Nov 2021, Le Havre, France. (hal-04400666)  
<https://hal.science/hal-04400666v1>

2021 - Dimitrios Tsiotas, César Ducruet. Measuring the effect of distance on the network topology of the Global Container Shipping Network. Scientific Reports, 2021, 11 (1), pp.21250. (10.1038/s41598-021-00387-3). (halshs-03408185)  
<https://shs.hal.science/halshs-03408185v1>

2021 - César Ducruet, Justin Berli, Giannis Spiliopoulos, Dimitris Zissis. Maritime Network Analysis: Connectivity and Spatial Distribution. Guide to Maritime Informatics, Springer International Publishing, pp.299-317, 2021, (10.1007/978-3-030-61852-0\_10). (hal-03293379)  
<https://hal.science/hal-03293379v1>

2021 - Mounir Amdaoud, César Ducruet, Marc-Antoine Faure. Port-city linkages and multi-level hinterlands: the case of France. 2021. (hal-04159734)  
<https://hal.science/hal-04159734v1>

2021 - César Ducruet. Health and environmental impacts of onshore and offshore activities in sea-port cities. Webinar on Environment and Health in Seaport Cities, 2021, en ligne, Unknown Region. (hal-04292891)  
<https://hal.science/hal-04292891v1>

2021 - César Ducruet. Change and Prospect of Shipping and Logistics Network on the Korean Peninsula. 17th Hankyoreh-Busan International Symposium, 2021, Busan, Unknown Region. (hal-04292889)

<https://hal.science/hal-04292889v1>

2021 - Laure Nuninger, Lena Sanders, Arnaud Banos, Frédérique Bertoncello, Anne Bretagnolle, et al.. A generic conceptual framework for describing transitions in settlement systems. Sanders L. Settling the World : From Prehistory to the Metropolis Era, Presses universitaires François-Rabelais; Presses universitaires François-Rabelais, Chap 2, 2021, Perspectives Villes et Territoires, 9782869068551. (10.4000/books.pufr.19740). (hal-03480382)

<https://hal.science/hal-03480382v1>

2021 - César Ducruet. Is maritime transport an urban network? The interplay between global container flows and urban hierarchies. Handbook of Cities and Networks, Edward Elgar Publishing, pp.449-471, 2021, (10.4337/9781788114714.00031). (hal-03341631)

<https://hal.science/hal-03341631v1>

2021 - César Ducruet, Justin Berli. The geography of maritime transport. International Encyclopaedia of Transportation, Elsevier, pp.517 - 534, 2021. (hal-03247146)

<https://hal.science/hal-03247146v1>

2021 - César Ducruet. Is maritime transport an urban network ? The interplay between global container flows and urban hierarchies. Handbook of Cities and Networks, Edward Elgar Publishing, pp.449 - 471, 2021. (hal-03247155)

<https://hal.science/hal-03247155v1>

2021 - César Ducruet, Theo Notteboom. Liner shipping networks : service types, configuration and dynamics. Maritime Logistics : A Guide to Contemporary Shipping and Port Management, Kogan Page, 2021. (hal-03247154)

<https://hal.science/hal-03247154v1>

2021 - César Ducruet, Hidekazu Itoh. Introduction to global container shipping market. Global Logistics Network Modelling and Policy. Quantification and Analysis for International Freight, Elsevier, pp.3-30, 2021, (10.1016/B978-0-12-814060-4.00001-0). (halshs-02995835)

<https://shs.hal.science/halshs-02995835v1>

2021 - César Ducruet, Justin Berli. The geography of maritime transport. International Encyclopedia of Transportation, Elsevier, pp.517-534, 2021, (10.1016/B978-0-08-102671-7.10478-6). (hal-03293381)

<https://hal.science/hal-03293381v1>

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