LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH

Judul karya ilmiah (artikel)	:	Urbanization and Increasing Flood Risk in the Northern Coast of Central Java-Indonesia: An Assessment Towards Better Land Use Policy and Flood Management
Jumlah Penulis	:	4 penulis
Status Pengusul	:	Wiwandari Handayani, Uchendu Eugene Chigbu, **Iwan Rudiarto**, Intan Hapsari Surya Putri
Identitas Jurnal Ilmiah	:	a. Nama Jurnal : Journal Land b. Nomor ISSN : 2073-445x c. Vol.,no.,bulan,tahun : Vol. 9 Issue 10, 343, September 2020 d. Penerbit : MDPI e. DOI artikel (jika ada): 10.3390/land9100343 f. Alamat web jurnal : https://www.mdpi.com/2073-445X/9/10/343 g. Terindeks di SJR 0,717 (2019) dan SNIP 1.148 (2019)
Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat)	:	☑ Jurnal Ilmiah Internasional /Internasional bereputasi ☐ Jurnal Ilmiah Nasional Terakreditasi ☐ Jurnal Ilmiah Nasional /Nasional di DOAJ,CABI, COPERNICUS

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional/ internasional bereputasi (40)	Nasional Terakreditasi ( )	Nasional ( )	
a. Kelengkapan unsur isi artikel (10%)	4			4
b. Ruang lingkup dan kedalaman pembahasan (30%)	12			11
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12			11
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			11
Total = (100%)	**40**			**37**
Nilai = (20% x 37 : 2)				**3,7**

Catatan Penilaian artikel oleh Reviewer :

a. Unsur isi artikel lengkap sesuai dengan petunjuk penulisan yang disediakan yang terdiri dari; *title, authors-affiliations, abstract-keywords, introduction, description of study area, material and methods, results, discussion, conclusion, acknowledgement,* dan *references*. Komponen artikel dibahas sesuai dengan judul yaitu mengenai urbanisasi dan meningkatnya risioko banjir di wilayah pantai utara Pulau Jawa.

b. Pembahasan cukup mendalam, dielaborasi dengan jelas kejadian-kejadian banjir di wilayah studi yang kemudian dikaitkan dengan fenomena urbanisasi yang terjadi (yang diindikasikan dari perubahan guna lahan), didukung oleh 63 pustaka dan 39 diantaranya (62%) bersumber dari artikel jurnal (pustaka primer). Artikel jurnal sesuai dengan bidang penulis terutama dalam konteks perencanaan dan pengembangan wilayah pesisir.

c. Dengan dukungan 63 pustaka dan 89% merupakan artikel terbitan ≤ 10 tahun terakhir, artikel memiliki kebaharuan yang baik. Data dan analisis yang digunakan juga cukup mutakhir dengan sumber data yang dengan detail diuraikan. Analisis menggunakan analisis citra satelit dengan metode supervised classification.

d. Jurnal terindeks *Scopus* Q2 dengan SJR 0.72 yang diterbitkan oleh MDPI. Jurnal tersedia online (*open access*). ISSN dan tautan DOI tersedia, dan di dukung editorial board yang relevan dan cukup beragam.

Semarang, 29-11-2020
Reviewer 1,

Prof. Dr.rer.nat. Imam Buchori, ST
NIP. 197011231995121001
Departemen PWK, FT. Undip

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
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Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional/ internasional bereputasi (40)	Nasional Terakreditasi ( )	Nasional ( )	
a. Kelengkapan unsur isi artikel (10%)	4			4
b. Ruang lingkup dan kedalaman pembahasan (30%)	12			11
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12			12
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			12
Total = (100%)	**40**			**39**
Nilai = (20% x 39 : 2)				**3,9**

Catatan Penilaian artikel oleh Reviewer :

a. Tulisan lengkap, sesuai bidang ilmu penulis. Terdiri dari: *title, authors-affiliations, abstract-keywords, introduction, description of study area, material and methods, results, discussion, conclusion, acknowledgement,* dan *references*. Komponen-komponen didalamnya dijabarkan sesuai dengan judul, yaitu mengenai fenomena urbanisasi yang diidentifikasi berdasarkan perubahan guna lahan terkait dengan peningkata risiko banjir.

b. Isi artikel berkaitan dengan analisis spasial perubahan guna lahan dan kejadian banjir di beberapa kota di Pantura Jawa telah dibahas dengan data yang cukup lengkap. Artikel jurnal sesuai dengan bidang penulis terutama dalam konteks perencanaan dan ketahanan wilayah pesisir.

c. Artikel memiliki kebaruan yang baik. Kebaruan tidak hanya dari sisi subtansi analisis dan diskusi, tetapi juga metode analisis spasial yang digunakan. Ada 63 referensi dan 89% merupakan artikel terbitan ≤ 10 tahun terakhir. Turnitin Similiarity Index 2%.

d. Jurnal "Land" terindeks Scopus Q2. SNIP 1,15 dan SJR 0,72 (2019). Diterbitkan oleh *MDPI*. Jurnal tersedia online. Dilengkapi dengan ISSN dan tautan DOI, dengan editorial board yang bervariasi dari berbagai universitas/institusi riset di beberapa negara.

Semarang, 09-11-2020
Reviewer 2,

Prof. Dr. Ir. Nany Yuliastuti, MSP
NIP. 195407171982032001
Departemen PWK, FT. Undip

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH

Judul karya ilmiah (artikel) : Urbanization and Increasing Flood Risk in the Northern Coast of Central Java-Indonesia: An Assessment Towards Better Land Use Policy and Flood Management

Jumlah Penulis : 4 penulis

Status Pengusul : Wiwandari Handayani, Uchendu Eugene Chigbu, **Iwan Rudiarto**, Intan Hapsari Surya Putri

Identitas Jurnal Ilmiah :
a. Nama Jurnal : Journal Land
b. Nomor ISSN : 2073-445x
c. Vol.,no.,bulan,tahun : Vol. 9 Issue 10, 343, September 2020
d. Penerbit : MDPI
e. DOI artikel (jika ada) : 10.3390/land9100343
f. Alamat web jurnal : https://www.mdpi.com/2073-445X/9/10/343
g. Terindeks di SJR 0,717 (2019) dan SNIP 1.148 (2019)

Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat) :
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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		
	Reviewer I	Reviewer II	Nilai Rata-rata
a.Kelengkapan unsur isi artikel (10%)	4	4	4
b.Ruang lingkup dan kedalaman pembahasan (30%)	11	11	11
c.Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	11	12	11,5
d.Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	11	12	11,5
Total = (100%)	37	39	38
Nilai = (20% x 38 : 2)			3,8

Semarang, 08-12-2020

Reviewer 1,

Prof. Dr.rer.nat. Imam Buchori, ST
NIP. 197011231995121001
Departemen PWK FT.Undip

Reviewer 2,

Prof. Dr. Ir. Nany Yuliastuti, MSP
NIP. 195407171982032001
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‹ Back to results | ‹ Previous 2 of 19 Next ›

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Volume 9, Issue 10, October 2020, Article number 343

Urbanization and increasing flood risk in the Northern Coast of Central Java-Indonesia: An assessment towards better land use policy and flood management (Article) (Open Access)

Handayani, W.[a], Chigbu, U.E.[b], Rudiarto, I.[a], Surya Putri, I.H.[a]

[a]Department of Urban and Regional Planning, Diponegoro University, Semarang, 50275, Indonesia
[b]Chair of Land Management, Faculty of Aerospace and Geodesy, Technical University of Munich (TUM), Munich, 80333, Germany

Abstract

View references (63)

This study explores urbanization and flood events in the northern coast of Central Java with river basin as its unit of analysis. Two types of analysis were applied (i.e., spatial data and non-spatial data analysis) at four river basin areas in Central Java-Indonesia. The spatial analysis is focused on the assessment of LULC change in 2009-2018 based on Landsat Imagery. The non-spatial data (i.e., rural-urban classification and flood events) were overlaid with results of spatial data analyses. Our findings show that urbanization, as indicated by the growth rate of built-up areas, is very significant. Notable exposure to flood has taken place in the urban and potentially urban areas. The emerging discussion indicates that river basins possess dual spatial identity in the urban system (policy- and land-use-related). Proper land use planning and control is an essential instrument to safeguard urban areas (such as the case study area) and the entire island of Java in Indonesia. More attention should be put upon the river basin areas in designing eco-based approach to tackle the urban flood crises. In this case, the role of governance in flood management is crucial. © 2020 by the authors.

SciVal Topic Prominence

Topic: Climate Change Adaptation | Urban Climate | Adaptive Capacity

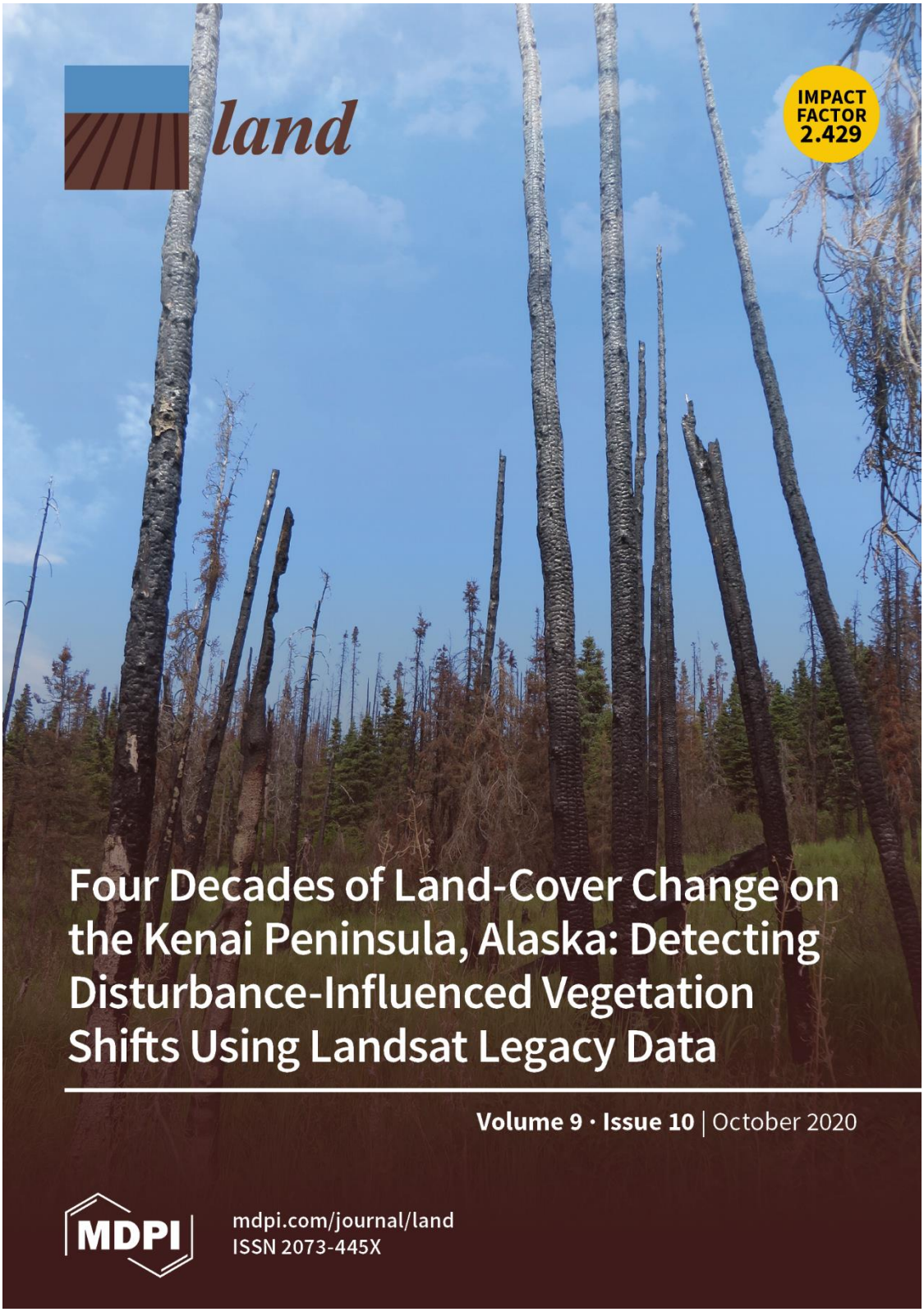
Prominence percentile: 99.877

Author keywords

Central java | Flood | Flood management | Indonesia | Land policy | Land use | Land-use change | Urbanization

Funding details

Funding sponsor	Funding number	Acronym
Universitas Diponegoro		UNDIP
Kementerian Riset Teknologi Dan Pendidikan Tinggi Republik Indonesia		
Technische Universität München		TUM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Journal Menu

Journal Browser

Vol. 10 (2021) (/2073-445X/10)
Vol. 9 (2020) (/2073-445X/9)
Vol. 8 (2019) (/2073-445X/8)
Vol. 7 (2018) (/2073-445X/7)
Vol. 6 (2017) (/2073-445X/6)
Vol. 5 (2016) (/2073-445X/5)
Vol. 4 (2015) (/2073-445X/4)
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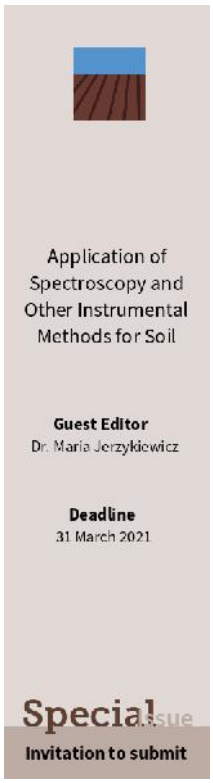

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Prof. Dr. Xiangzheng Deng

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Dr. Oren Ackermann *
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Institute of Archaeology, Department of Land of Israel Studies and Archaeology Ariel University, P.O.B. 3, Ariel 4070000, Israel
Interests: geoarchaeology; portable OSL; paleoanthropocene; cultural landscape; anthropogenic soils, landscape archaeology, climate change and ancient societies; geomorphology, ecogeomorphology
* Section "Soil-Sediment-Water Systems"

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Interests: landslides; slope stability; landslide susceptibility; slope units; parallel computing; physically based models; deterministic models; geomorphometry

Prof. Dr. Paul Aplin
Website (https://www.edgehill.ac.uk/geography/staff/professor-paul-aplin/)
Department of Geography, Edge Hill University, Ormskirk, Lancashire, L39 4QP, UK
Interests: remote sensing; land cover classification; scales of observation; environmental applications
Special Issues and Collections in MDPI journals:
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Dr. Hossein Azadi
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Interests: land and food policies; land governance; food security; agrarian change; resilient agriculture; sustainable livelihood; vulnerability
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Dr. Christopher Bacon
Website (https://www.scu.edu/cas/ess/faculty-and-staff/christopher-bacon/)
Department of Environmental Studies and Sciences, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053, USA
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Dr. Sofia Bajocco
Website (http://crea.gov.it) SciProfiles (https://sciprofiles.com/profile/78080)
Council for Agricultural Research and Economics (CREA), Research Centre for Engineering and Agro-Food Processing (CREA-IT), Rome 00186, Italy
Interests: vegetation phenology dynamics; landscape disturbance; fire spatio-temporal behavior; land cover change processes; remotely sensed data analysis; geoprocessing techniques; multivariate statistical methods
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- Reviewer Board (/journal/land/submission_reviewers)
- Topics Board (/journal/land/topic_editors)
- Instructions for Authors (/journal/land/instructions)
- Special Issues (/journal/land/special_issues)
- Sections (/journal/land/sections)
- Article Processing Charge (/journal/land/apc)
- Indexing & Archiving (/journal/land/indexing)
- Editor's Choice Articles (/journal/land/editors_choice)
- Most Cited & Viewed (/journal/land/most_cited)
- Journal Statistics (/journal/land/stats)
- Journal History (/journal/land/history)
- Journal Awards (/journal/land/awards)
- Society Collaborations (/journal/land/societies)
- Editorial Office (/journal/land/editorial_office)

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volume

issue

Go

› Forthcoming issue (/2073-445X/10/1)
› Current issue (/2073-445X/9/12)

Vol. 10 (2021) (/2073-445X/10)
Vol. 9 (2020) (/2073-445X/9)
Vol. 8 (2019) (/2073-445X/8)
Vol. 7 (2018) (/2073-445X/7)
Vol. 6 (2017) (/2073-445X/6)
Vol. 5 (2016) (/2073-445X/5)
Vol. 4 (2015) (/2073-445X/4)
Vol. 3 (2014) (/2073-445X/3)
Vol. 2 (2013) (/2073-445X/2)
Vol. 1 (2012) (/2073-445X/1)

Land, Volume 9, Issue 10 (October 2020) – 59 articles

Cover Story (**view full-size image (/files/uploaded/covers/land/big_cover-land-v9-i10.png)**): The boreal forests of Alaska's Kenai Peninsula have experienced significant land-cover change over the past half century including deforestation (loss of established forest), afforestation (conversion of historically non-forested areas to forest), and reforestation (re-establishment of historical forests). To detect and quantify these land cover changes, we produced a spatially explicit time series of land cover types and transitions. Our approach aims to extend the geospatial record of land-cover change and to better quantify how disturbance events and natural succession have shaped the distribution of vegetation types across the peninsula. **View this paper (https://www.mdpi.com/2073-445X/9/10/382)**

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Challenging a Global Land Surface Model in a Local Socio-Environmental System (/2073-445X/9/10/398)

by **Kyla M. Dahlin (https://sciprofiles.com/profile/981732)**, **Donald Akanga (https://sciprofiles.com/profile/author/TDQ3bmpvM0w0V052SWJYaEc5RlN2SUVFK0ZDaGd4UFBrNkRrWTBMQ0x1QT0=)**, **Danica L. Lombardozzi (https://sciprofiles.com/profile/1299627)**, **David E. Reed (https://sciprofiles.com/profile/author/QWQ5N1dyamRVNE1xZ0w1SGFLYmZvQT09)**, **Gabriela Shirkey (https://sciprofiles.com/profile/author/UmNCSkFyVDh4dVJ5RXlHdFZjcVlaN2xkMkxacDVlQ2w0NyswWG1icEJsYz0=)**, **Cheyenne Lei (https://sciprofiles.com/profile/1303264)**, **Michael Abraha (https://sciprofiles.com/profile/author/MUlJTmdhWDZFK0dVV1Z6dUZGYjZ5QT09)** and **Jiquan Chen (https://sciprofiles.com/profile/205159)**

Land **2020**, *9*(10), 398; **https://doi.org/10.3390/land9100398 (https://doi.org/10.3390/land9100398)** - 21 Oct 2020

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Abstract Land surface models (LSMs) predict how terrestrial fluxes of carbon, water, and energy change with abiotic drivers to inform the other components of Earth system models. Here, we focus on a single human-dominated watershed in southwestern Michigan, USA. We compare multiple processes in **[...] Read more.**

(This article belongs to the Section **Landscape Ecology (/journal/land/sections/Landscape_Ecology)**)

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Spatial Variation in Environmental Impacts of Sugarcane Expansion in Brazil (/2073-445X/9/10/397)

by **Ivan Vera (https://sciprofiles.com/profile/1264203)**, **Birka Wicke (https://sciprofiles.com/profile/1175862)** and **Floor van der Hilst (https://sciprofiles.com/profile/883750)**

Land **2020**, *9*(10), 397; **https://doi.org/10.3390/land9100397 (https://doi.org/10.3390/land9100397)** - 20 Oct 2020

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Abstract In the past decades, sugarcane production in Brazil has expanded rapidly to meet increasing ethanol demand. The large majority of this expansion occurred in Sao Paulo state. We used an integrated approach considering location-specific biophysical characteristics to determine the environmental impacts of sugarcane **[...] Read more.**

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The Influence of Innovation Resources in Higher Education Institutions on the Development of Sci-Tech Parks' Enterprises in the Urban Innovative Districts at the Stage of Urbanization Transformation (/2073-445X/9/10/396)

by **Yue Wu (https://sciprofiles.com/profile/1228474)**, **Yue Yang (https://sciprofiles.com/profile/1228664)**, **Weishun Xu (https://sciprofiles.com/profile/1228605)** and **Qiuxiao Chen (https://sciprofiles.com/profile/81198)**

Land **2020**, *9*(10), 396; **https://doi.org/10.3390/land9100396 (https://doi.org/10.3390/land9100396)** - 20 Oct 2020

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Abstract Innovation is an inevitable way to enhance regional competitiveness, promote urbanization and achieve sustainable development. The sci-tech park is one of the main land use types in the construction of a new town and the critical space carriers of urbanization. This study focuses **[...] Read more.**

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Uncovering Ecosystem Services of Expropriated Land: The Case of Urban Expansion in Bahir Dar, Northwest Ethiopia (/2073-445X/9/10/395)

by Wubante Fetene Admasu (https://sciprofiles.com/profile/995124), Annelies Boerema (https://sciprofiles.com/profile/author/VDhONXVDV0N5cFRLdXFsRklIMjI5M0tJZU5LOXFSTS9UcXQyZC9vQWJHcz0=), Jan Nyssen (https://sciprofiles.com/profile/497594), Amare Sewnet Minale (https://sciprofiles.com/profile/1047860), Enyew Adgo Tsegaye (https://sciprofiles.com/profile/727719) and Steven Van Passel (https://sciprofiles.com/profile/275972)

Land **2020**, *9*(10), 395; https://doi.org/10.3390/land9100395 (https://doi.org/10.3390/land9100395) - 19 Oct 2020

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Abstract In Ethiopia, urban expansion happens at high rates and results in land expropriations often at the cost of agriculture and forests. The process of urban expansion does not include assessment of ecosystem services (ES). This has been causing unintended environmental problems. This study **[...] Read more.**

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Impacts of Future Crop Tree Release Treatments on Forest Carbon as REDD+ Mitigation Benefits (/2073-445X/9/10/394)

by Sebastian Gräfe (https://sciprofiles.com/profile/955903) and Michael Köhl (https://sciprofiles.com/profile/237719)

Land **2020**, *9*(10), 394; https://doi.org/10.3390/land9100394 (https://doi.org/10.3390/land9100394) - 18 Oct 2020

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Abstract Sustainable forest management activities, such as future crop tree (FCT) release treatments, became part of the REDD+ strategy to avoid carbon emissions from forests. FCT release treatments are intended to achieve increased growth of FCTs by removing competitor trees. This initially leads to **[...] Read more.**

(This article belongs to the Special Issue **Impact of Sustainable Forest Management on Biomass Growth and Carbon Accumulation Capacity (/journal/land/special_issues/forest_biomass_carbon)**)

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Landscapes and Services in Peri-Urban Areas and Choice of Housing Location: An Application of Discrete Choice Experiments (/2073-445X/9/10/393)

by Biancamaria Torquati (https://sciprofiles.com/profile/81578), Giulia Giacchè (https://sciprofiles.com/profile/1300460) and Tiziano Tempesta (https://sciprofiles.com/profile/748550)

Land **2020**, *9*(10), 393; https://doi.org/10.3390/land9100393 (https://doi.org/10.3390/land9100393) - 17 Oct 2020

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Abstract The recent decades have witnessed a significant increase in the population in peri-urban areas which led to a progressive transformation of peri-urban landscapes, and the reduced ability of agriculture to provide ecosystem services. In order to understand the complex relationships established in peri-urban **[...] Read more.**

(This article belongs to the Special Issue **Sustainability and Peri-Urban Agriculture (/journal/land/special_issues/peri_urban_agri)**)

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Assessment Method and Scale of Observation Influence Ecosystem Service Bundles (/2073-445X/9/10/392)

by Santiago Madrigal-Martínez (https://sciprofiles.com/profile/1258006) and José Luis Miralles i García (https://sciprofiles.com/profile/1355830)

Land **2020**, *9*(10), 392; https://doi.org/10.3390/land9100392 (https://doi.org/10.3390/land9100392) - 16 Oct 2020

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Abstract The understanding of relationships between ecosystem services and the appropriate spatial scales for their analysis and characterization represent opportunities for sustainable land management. Bundles have appeared as an integrated method to assess and visualize consistent associations among multiple ecosystem services. Most of the **[...] Read more.**

(This article belongs to the Special Issue **Linking Integrated Valuation of Ecosystem Services and Landscape Management (/journal/land/special_issues/ILM)**)

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Land **2020**, *9*(10), 391; https://doi.org/10.3390/land9100391 (https://doi.org/10.3390/land9100391) - 14 Oct 2020

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Abstract Street trees, native plantings, bioswales, and other forms of green infrastructure alleviate urban air and water pollution, diminish flooding vulnerability, support

pollinators, and provide other benefits critical to human well-being. Urban planners increasingly value such urban ecosystem services (ES), and effective methods for **[...] Read more.**

(This article belongs to the Special Issue **Urban Ecosystem Services (/journal/land/special_issues/Urban_Ecosystem_Services)**)

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Open Access Article **(/2073-445X/9/10/390/pdf)**

Social Valuation of Mediterranean Cultural Landscapes: Exploring Landscape Preferences and Ecosystem Services Perceptions through a Visual Approach (/2073-445X/9/10/390)

by **Íñigo Bidegain (https://sciprofiles.com/profile/1281009)**, **César A. López-Santiago (https://sciprofiles.com/profile/121601)**, **José A. González (https://sciprofiles.com/profile/1144115)**, **Rodrigo Martínez-Sastre (https://sciprofiles.com/profile/author/S3FDdVM1cS96RTJZTjNhOHFESXZiOTJTeHpMbnZaTTFPZUgrM0w5elBWdz0=)**, **Federica Ravera (https://sciprofiles.com/profile/author/WU5BR0pXakNMRGtWQTVlUTFVVDhpNHlYWWU0THpzSGEwOGxvRXUxQW5PRT0=)** and **Claudia Cerda (https://sciprofiles.com/profile/author/a1VHZU90YkRrMno1RkRVT2l4Zy9sb2hTWHJBaTJsNHlXbFlPcjJBdnZuMD0=)**

Land **2020**, *9*(10), 390; **https://doi.org/10.3390/land9100390 (https://doi.org/10.3390/land9100390)** - 14 Oct 2020

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Abstract Mediterranean cultural landscapes have been recognized as multifunctional landscapes that are currently threatened by two opposing trends: rural abandonment and agricultural intensification. Uncovering people's perceptions of different landscape configurations, and how inhabitants value the contributions of nature to human wellbeing, is essential to **[...] Read more.**

(This article belongs to the Special Issue **Landscape Transformation and Changes in Land Use Intensity (/journal/land/special_issues/landscape_transformation)**)

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Effects of Agroforestry and Other Sustainable Practices in the Kenya Agricultural Carbon Project (KACP) (/2073-445X/9/10/389)

by **Ylva Nyberg (https://sciprofiles.com/profile/1261985)**, **Caroline Musee (https://sciprofiles.com/profile/author/WHR4VjhXbVUycC9VY2kxdElFSDBIMUV1Yjg5ZWtpdUxjTlNvWDd2aStvRFRHM0xVY2Njd2Z0UGRoS2ZOUmJwMw==)**, **Emmanuel Wachiye (https://sciprofiles.com/profile/1280194)**, **Mattias Jonsson (https://sciprofiles.com/profile/author/Qm1KK3hyemE1OGpzMHJqUzU1NVUzbCtHaVMzRHQzbmJyUVNSdVU5MkUvUT0=)**, **Johanna Wetterlind (https://sciprofiles.com/profile/312158)** and **Ingrid Öborn (https://sciprofiles.com/profile/1333599)**

Land **2020**, *9*(10), 389; **https://doi.org/10.3390/land9100389 (https://doi.org/10.3390/land9100389)** - 13 Oct 2020

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Abstract With growing global demand for food, unsustainable farming practices and large greenhouse gas emissions, farming systems need to sequester more carbon than they emit, while also increasing productivity and food production. The Kenya Agricultural Carbon Project (KACP) recruited farmer groups committed to more **[...] Read more.**

(This article belongs to the Special Issue **Agroforestry-Based Ecosystem Services (/journal/land/special_issues/agroforestry_ES)**)

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A Trend Analysis of Leaf Area Index and Land Surface Temperature and Their Relationship from Global to Local Scale (/2073-445X/9/10/388)

by **Azad Rasul (https://sciprofiles.com/profile/882460)**, **Sa'ad Ibrahim (https://sciprofiles.com/profile/122790)**, **Ajoke R. Onojeghuo (https://sciprofiles.com/profile/517676)** and **Heiko Balzter (https://sciprofiles.com/profile/145355)**

Land **2020**, *9*(10), 388; **https://doi.org/10.3390/land9100388 (https://doi.org/10.3390/land9100388)** - 12 Oct 2020

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Abstract Although the way in which vegetation phenology mediates the feedback of vegetation to climate systems is now well understood, the magnitude of these changes is still unknown. A thorough understanding of how the recent shift in phenology may impact on, for example, land **[...] Read more.**

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Urban Planning and Design for Building Neighborhood Resilience to Climate Change (/2073-445X/9/10/387)

by **Katarzyna Rędzińska (https://sciprofiles.com/profile/609253)** and **Monika Piotrkowska (https://sciprofiles.com/profile/1237323)**

Land **2020**, *9*(10), 387; **https://doi.org/10.3390/land9100387 (https://doi.org/10.3390/land9100387)** - 12 Oct 2020

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Abstract The aim of the paper was to present the procedure of building neighborhood resilience to climate threats, embedded in planning (from the strategic to local level) and design process and focused on usage of natural adaptive potential. The presented approach encompasses: (1) the **[...] Read more.**

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Potential Impacts of Soil Tillage System on Isoflavone Concentration of Soybean as Functional Food Ingredients (/2073-445X/9/10/386)

by Liliana Mureșan (https://sciprofiles.com/profile/1182684), Doina Clapa (https://sciprofiles.com/profile/922169), Orsolya Borsai (https://sciprofiles.com/profile/925213), Teodor Rusu (https://sciprofiles.com/profile/315308), Thomas T. Y. Wang (https://sciprofiles.com/profile/982518) and Jae B. Park (https://sciprofiles.com/profile/45195)

Land **2020**, *9*(10), 386; https://doi.org/10.3390/land9100386 (https://doi.org/10.3390/land9100386) - 12 Oct 2020

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Abstract Soybean is an important natural source of isoflavones, but their concentration is likely to be influenced by external factors, such as climatic conditions and soil tillage systems. However, there is minimal information about the effects of such external factors on the isoflavone concentration **[...] Read more.**

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Where Do Ecosystem Services Come From? Assessing and Mapping Stakeholder Perceptions on Water Ecosystem Services in the Muga River Basin (Catalonia, Spain) (/2073-445X/9/10/385)

by Enrica Garau (https://sciprofiles.com/profile/1246976), Josep Vila-Subiros (https://sciprofiles.com/profile/743364), Josep Pueyo-Ros (https://sciprofiles.com/profile/507704) and Anna Ribas Palom (https://sciprofiles.com/profile/396313)

Land **2020**, *9*(10), 385; https://doi.org/10.3390/land9100385 (https://doi.org/10.3390/land9100385) - 12 Oct 2020

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Abstract Reductions in water availability and increasing rainfall variability are generating a narrative of growing competition for water in the Mediterranean basin. In this article, we explore the distribution and importance of water resources in the Muga River Basin (Catalonia, Spain) based on key **[...] Read more.**

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Open Access Article (/2073-445X/9/10/384/pdf)

Inventory and Distribution of Rock Glaciers in Northeastern Yakutia (/2073-445X/9/10/384)

by Vasylii Lytkin (https://sciprofiles.com/profile/977559)

Land **2020**, *9*(10), 384; https://doi.org/10.3390/land9100384 (https://doi.org/10.3390/land9100384) - 10 Oct 2020

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Abstract Rock glaciers are common forms of relief of the periglacial belt of many mountain structures in the world. They are potential sources of water in arid and semi-arid regions, and therefore their analysis is important in assessing water reserves. Mountain structures in the **[...] Read more.**

(This article belongs to the Special Issue **Permafrost Landscape (/journal/land/special_issues/permafrost_landscape)**)

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Open Access Feature Paper Article (/2073-445X/9/10/383/pdf)

Resident or Present? Population Census Data Tell You More about Suburbanization (/2073-445X/9/10/383)

by Kostas Rontos (https://sciprofiles.com/profile/595436), Andrea Colantoni (https://sciprofiles.com/profile/42838), Luca Salvati (https://sciprofiles.com/profile/408818), Enrico Maria Mosconi (https://sciprofiles.com/profile/318690) and Antonio Giménez Morera (https://sciprofiles.com/profile/1090805)

Land **2020**, *9*(10), 383; https://doi.org/10.3390/land9100383 (https://doi.org/10.3390/land9100383) - 09 Oct 2020

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Abstract The present study analyzes population redistribution across metropolitan regions considering together changes over time in the spatial distribution of resident and present population from census data. Considering population dynamics in Athens, Greece, between 1991 and 2011, the results of this study evidenced how **[...] Read more.**

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Open Access Editor's Choice Article (/2073-445X/9/10/382/pdf)

Four Decades of Land-Cover Change on the Kenai Peninsula, Alaska: Detecting Disturbance-Influenced Vegetation Shifts Using Landsat Legacy Data (/2073-445X/9/10/382)

by Carson A. Baughman (https://sciprofiles.com/profile/123072), Rachel A. Loehman (https://sciprofiles.com/profile/390809),

Dawn R. Magness (https://sciprofiles.com/profile/571373), Lisa B. Saperstein (https://sciprofiles.com/profile/822673) and Rosemary L. Sherriff (https://sciprofiles.com/profile/author/a3A4MjZmNkVHOXV6b0xjd1haQTE1aDU2a295UnZGNVlCSVZxS1FFT1VxVT0=)

Land **2020**, *9*(10), 382; https://doi.org/10.3390/land9100382 (https://doi.org/10.3390/land9100382) - 09 Oct 2020
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Abstract Across Alaska's Kenai Peninsula, disturbance events have removed large areas of forest over the last half century. Simultaneously, succession and landscape evolution have facilitated forest regrowth and expansion. Detecting forest loss within known pulse disturbance events is often straightforward given that reduction in **[...] Read more.**

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Aboveground Biomass Distribution in a Multi-Use Savannah Landscape in Southeastern Kenya: Impact of Land Use and Fences (/2073-445X/9/10/381)

by Edward Amara (https://sciprofiles.com/profile/253095), Hari Adhikari (https://sciprofiles.com/profile/285184), Janne Heiskanen (https://sciprofiles.com/profile/161182), Mika Siljander (https://sciprofiles.com/profile/290834), Martha Munyao (https://sciprofiles.com/profile/author/eXhXZW1PQjZodmsrcnNiZEozbHJ1cEtmemVYS0VVdlNiMmd3TzJmUDZOST0=), Patrick Omondi (https://sciprofiles.com/profile/author/SjB2ZjE5S0tMeXpYUFE3VjJVeE9kcHp3L2dVei9pWmc0dDg2SW5zRGEzaz0=) and Petri Pellikka (https://sciprofiles.com/profile/378205)

Land **2020**, *9*(10), 381; https://doi.org/10.3390/land9100381 (https://doi.org/10.3390/land9100381) - 09 Oct 2020
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Abstract Savannahs provide valuable ecosystem services and contribute to continental and global carbon budgets. In addition, savannahs exhibit multiple land uses, e.g., wildlife conservation, pastoralism, and crop farming. Despite their importance, the effect of land use on woody aboveground biomass (AGB) in savannahs is **[...] Read more.**
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The Sustainable Management of Land and Fisheries Resources Using Multicriteria Techniques: A Meta-Analysis (/2073-445X/9/10/380)

by Luis Diaz-Balteiro (https://sciprofiles.com/profile/68827), Carlos Iglesias-Merchan (https://sciprofiles.com/profile/920564), Carlos Romero (https://sciprofiles.com/profile/615234) and Silvestre García de Jalón (https://sciprofiles.com/profile/335099)

Land **2020**, *9*(10), 380; https://doi.org/10.3390/land9100380 (https://doi.org/10.3390/land9100380) - 08 Oct 2020
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Abstract In recent years modern societies have attached a multifunctional requirement to the use of renewable resources, making their optimal sustainable management more complex. In the last decades, in many cases, this complexity is addressed by formulating management models with the help of the **[...] Read more.**

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Integrating Ecosystem Services into Land-Use Modeling to Assess the Effects of Future Land-Use Strategies in Northern Ghana (/2073-445X/9/10/379)

by Hongmi Koo (https://sciprofiles.com/profile/1120681), Janina Kleemann (https://sciprofiles.com/profile/434760) and Christine Fürst (https://sciprofiles.com/profile/355779)

Land **2020**, *9*(10), 379; https://doi.org/10.3390/land9100379 (https://doi.org/10.3390/land9100379) - 08 Oct 2020
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Abstract In West Africa, where the majority of the population relies on natural resources and rain-fed agriculture, regionally adapted agricultural land-use planning is increasingly important to cope with growing demand for land-use products and intensifying climate variability. As an approach to identify effective future **[...] Read more.**

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Open Access Article (/2073-445X/9/10/378/pdf)

Detection of City Integration Processes in Rapidly Urbanizing Areas Based on Remote Sensing Imagery (/2073-445X/9/10/378)

by Zihao Zheng (https://sciprofiles.com/profile/493371), Zhifeng Wu (https://sciprofiles.com/profile/703504), Yingbiao Chen (https://sciprofiles.com/profile/author/ODAxU29lV1ZvM3hwWXltUFIzV1owRUtrbmpZVS9YT2VEN2liYUtKcUZXOD0=), Zhiwei Yang (https://sciprofiles.com/profile/1388746) and Francesco Marinello (https://sciprofiles.com/profile/356481)

Land **2020**, *9*(10), 378; https://doi.org/10.3390/land9100378 (https://doi.org/10.3390/land9100378) - 08 Oct 2020
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Abstract Since China's reform and development commenced, in the context of rapid urbanization and coordinated regional development, Chinese cities with a close geographic proximity and social ties have gradually formed an integrated city development model. As a new phenomenon in China's urbanization process, existing **[...] Read more.**
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Open Access Article (/2073-445X/9/10/377/pdf)

Retrieving the National Main Commodity Maps in Indonesia Based on High-Resolution Remotely Sensed Data Using Cloud Computing Platform (/2073-445X/9/10/377)

by Aryo Adhi Condro (https://sciprofiles.com/profile/1223499), Yudi Setiawan (https://sciprofiles.com/profile/1040025), Lilik Budi Prasetyo (https://sciprofiles.com/profile/1224172), Rahmat Pramulya (https://sciprofiles.com/profile/609969) and Lasriama Siahaan (https://sciprofiles.com/profile/author/NXVodCtaaE9XUDNzMTdvNUY1ZlNHZytla0x0Rk41SnNKamFCaDNScVpUcz0=)

Land **2020**, *9*(10), 377; https://doi.org/10.3390/land9100377 (https://doi.org/10.3390/land9100377) - 08 Oct 2020

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Abstract Indonesia has the most favorable climates for agriculture because of its location in the tropical climatic zones. The country has several commodities to support economics growth that are driven by key export commodities—e.g., oil palm, rubber, paddy, cacao, and coffee. Thus, identifying the **[...] Read more.**

(This article belongs to the Special Issue **Role of Terrestrial Ecosystem in Climate Change Mitigation using Geospatial data (/journal/land/special_issues/geospatial_Ecosystem_Climate)**)

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Open Access Article (/2073-445X/9/10/376/pdf)

Spatial Structure of a Potential Ecological Network in Nanping, China, Based on Ecosystem Service Functions (/2073-445X/9/10/376)

by Ling Xiao (https://sciprofiles.com/profile/author/MFh2MnVaNFZCTnB1Z3JnMHFtblRpd1Z6RXZnVXBWY0hDeGV2bm9lejkwYz0=), Li Cui (https://sciprofiles.com/profile/author/azZldG5ld1dJamI2Njg5aGt0NzJPQXd0SFY5Q3lvQW4xNmlIWFNqZmJzND0=), Qun'ou Jiang (https://sciprofiles.com/profile/68352), Meilin Wang (https://sciprofiles.com/profile/author/OVh0QWE5bHdadFZvZmhlaEJ3Um13TmhlaEIwRUY0bUV5Y2k3d2FhZSt5bz0=), Lidan Xu (https://sciprofiles.com/profile/author/bW9BNDZJS3RJY01GY2pCU1NnQTJKNTFZZzhSWmVJM2JYVVNtQWx6M2ZZQT0=) and Haiming Yan (https://sciprofiles.com/profile/1183883)

Land **2020**, *9*(10), 376; https://doi.org/10.3390/land9100376 (https://doi.org/10.3390/land9100376) - 07 Oct 2020

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Abstract The increasing scale of urbanization and human activities has resulted in the fragmentation of natural habitats, leading to the reduction of ecological landscape connectivity and biodiversity. Taking Nanping as the study area, the core areas with good connectivity were extracted as ecological sources **[...] Read more.**

(This article belongs to the Special Issue **Linking Integrated Valuation of Ecosystem Services and Landscape Management (/journal/land/special_issues/ILM)**)

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Open Access Article (/2073-445X/9/10/375/pdf)

Informing Protected Area Decision Making through Academic-Practitioner Collaborations (/2073-445X/9/10/375)

by Grant Murray (https://sciprofiles.com/profile/author/Q2gybmNYUVNvdS9PT1VpeFkxZzNlVlVFVnJ2a0o0bXNaMHoxMTZmUWVxVT0=), Carleigh Randall (https://sciprofiles.com/profile/author/TGRkZHJlZVVlTC9RQWplT1J5OHVmLzJyNzVCS1E3WXM2RXY5UXhLdEhsdz0=) and Rick Rollins (https://sciprofiles.com/profile/352985)

Land **2020**, *9*(10), 375; https://doi.org/10.3390/land9100375 (https://doi.org/10.3390/land9100375) - 07 Oct 2020

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Abstract This study examined knowledge mobilization and collaboration practices of practitioners in a Canadian provincial park agency, BC Parks. Data was collected through four focus groups, an on line survey (N = 125), and a follow up workshop. Results showed that the most important **[...] Read more.**

(This article belongs to the Special Issue **Parks and Protected Areas: Mobilizing Knowledge for Effective Decision-Making (/journal/land/special_issues/parks_MK)**)

Open Access Article (/2073-445X/9/10/374/pdf)

Landscape Potential and Light Pollution as Key Factors for Astrotourism Development: A Case Study of a Slovak Upland Region (/2073-445X/9/10/374)

by Radoslava Kanianska (https://sciprofiles.com/profile/135719), Jana Škvareninová (https://sciprofiles.com/profile/author/cGwyTmVYNzgxeGdPZWxrSjdZbzl4QWUyZm8zaVpWOSthbnFVZXFyZHBVRT0=) and Stanislav Kaniansky (https://sciprofiles.com/profile/author/M01tWXV6YWdNNitrYVF2M1R5bW5lVnhmRzVBSDJFazdFZXRQVXdnL2F3dz0=)

Land **2020**, *9*(10), 374; https://doi.org/10.3390/land9100374 (https://doi.org/10.3390/land9100374) - 06 Oct 2020

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Abstract Astrotourism is considered to be a modern form of ecotourism. The main resource for astrotourism is a high-quality night sky, but this is very sensitive to natural as well as anthropogenic factors; for example, land utilization and expansion of urban areas often cause **[...] Read more.**

(This article belongs to the Section **Landscape Ecology (/journal/land/sections/Landscape_Ecology)**)

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Open Access Article (/2073-445X/9/10/373/pdf)

Modelling Land Cover Changes in Peri-Urban Areas: A Case Study of George Town Conurbation, Malaysia (/2073-445X/9/10/373)

by Narimah Samat (https://sciprofiles.com/profile/467971), Mohd Amirul Mahamud (https://sciprofiles.com/profile/author/UFhvN0VBSUViK1BJRHIzRWI0Nml0NE5qWG5vYlhDa0drWE1vQ1o0Y0lTcz0=), Mou Leong Tan (https://sciprofiles.com/profile/57186), Mohammad Javad Maghsoodi Tilaki (https://sciprofiles.com/profile/1061823) and Yi Lin Tew (https://sciprofiles.com/profile/1234240)

Land **2020**, *9*(10), 373; **https://doi.org/10.3390/land9100373 (https://doi.org/10.3390/land9100373)** - 05 Oct 2020
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Abstract Drastic growth of urban populations has caused expansion of peri-urban areas—the transitional zone between a city and its hinterland. Although urbanisation may bring economic opportunities and improve infrastructure in an area, uncontrolled urban expansion towards peri-urban areas will negatively impact the environment and **[...] Read more.**
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Open Access Article **(/2073-445X/9/10/372/pdf)**

Land Use/Land Cover Changes and the Relationship with Land Surface Temperature Using Landsat and MODIS Imageries in Cameron Highlands, Malaysia (/2073-445X/9/10/372)

by **Darren How Jin Aik (https://sciprofiles.com/profile/1207065)**, **Mohd Hasmadi Ismail (https://sciprofiles.com/profile/122901)** and **Farrah Melissa Muharam (https://sciprofiles.com/profile/106801)**
Land **2020**, *9*(10), 372; **https://doi.org/10.3390/land9100372 (https://doi.org/10.3390/land9100372)** - 05 Oct 2020
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Abstract Mountainous regions are more sensitive to climatic condition changes and are susceptible to recent increases in temperature. Due to urbanization and land use/land cover (LULC) issues, Cameron Highlands has been impacted by rising land surface temperature (LST) variation. Thus, this study was carried **[...] Read more.**

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Open Access Article **(/2073-445X/9/10/371/pdf)**

Transformation of Industrial Land in Urban Renewal in Shenzhen, China (/2073-445X/9/10/371)

by **Yani Lai (https://sciprofiles.com/profile/264377)**, **Ke Chen (https://sciprofiles.com/profile/1223086)**, **Jinming Zhang (https://sciprofiles.com/profile/author/UjQ2cmtQNW1jcUNhVFpkY0l4azhJNFNHNjg0NEh4cVEwZm80dTF6V0hmTT0=)** and **Feihu Liu (https://sciprofiles.com/profile/author/Y2NJcSt1cG5lb3ZiZkhubjJlL0FUZkFVc2pqVW1UNklONmU5TnRnTnR5Yz0=)**
Land **2020**, *9*(10), 371; **https://doi.org/10.3390/land9100371 (https://doi.org/10.3390/land9100371)** - 04 Oct 2020
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Abstract The redevelopment and transformation of industrial land has become an important part of urban renewal in China. This study adopts a spatial perspective to investigate the transformation of industrial land in Shenzhen based on a set of reliable data of all urban redevelopment **[...] Read more.**

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Open Access Article **(/2073-445X/9/10/370/pdf)**

Promoted Urbanization of the Countryside: The Case of Santiago's Periphery, Chile (1980–2017) (/2073-445X/9/10/370)

by **Víctor Jiménez Barrado (https://sciprofiles.com/profile/519273)**, **Javiera Larraín Suckel (https://sciprofiles.com/profile/1210018)**, **Bárbara Trincado Olhabé (https://sciprofiles.com/profile/1209693)** and **Francisco Cabrera Cona (https://sciprofiles.com/profile/author/WGFYK2tJSUVacTJyUlVyWUxEOGIzQT09)**
Land **2020**, *9*(10), 370; **https://doi.org/10.3390/land9100370 (https://doi.org/10.3390/land9100370)** - 03 Oct 2020
Viewed by 393

Abstract Urbanization of the countryside affects rural areas, especially in the immediate surroundings of large cities. Normally, this occurs as an unpromoted process, but in Chile, it is driven by the legal framework. This research focuses on rural residential plots (RRPs) around the capital **[...] Read more.**

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Open Access Article **(/2073-445X/9/10/369/pdf)**

Mapping Flood-Based Farming Systems with Bayesian Networks (/2073-445X/9/10/369)

by **Issoufou Liman Harou (https://sciprofiles.com/profile/1209637)**, **Cory Whitney (https://sciprofiles.com/profile/571964)**, **James Kung'u (https://sciprofiles.com/profile/author/dEVyOW9lOE1wNVM0dnZHSVJXTUJXN1k1U3U1VUFFdmpNNFFvL3JoSW0rUT0=)** and **Eike Luedeling (https://sciprofiles.com/profile/624514)**
Land **2020**, *9*(10), 369; **https://doi.org/10.3390/land9100369 (https://doi.org/10.3390/land9100369)** - 02 Oct 2020
Cited by 1 (/2073-445X/9/10/369#citedby) | Viewed by 660

Abstract Many actors in agricultural research, development, and policy arenas require accurate information on the spatial extents of cropping and farming practices. While remote sensing provides ways for obtaining such information, it is often difficult to distinguish between different types of agricultural practices or **[...] Read more.**

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Open Access Article (/2073-445X/9/10/368/pdf)

Soil Erosion Susceptibility Mapping in Kozetopraghi Catchment, Iran: A Mixed Approach Using Rainfall Simulator and Data Mining Techniques (/2073-445X/9/10/368)

by Abazar Esmali Ouri (https://sciprofiles.com/profile/1279840), Mohammad Golshan (https://sciprofiles.com/profile/author/ZUw4U09ZY0lLWnJCWDRxcmRBNmpsNFoyb0xEMDByTnZ5YTNVQlIyL1lOaz0=), Saeid Janizadeh (https://sciprofiles.com/profile/1201023), Artemi Cerdà (https://sciprofiles.com/profile/289235) and Assefa M. Melesse (https://sciprofiles.com/profile/90204)

Land **2020**, *9*(10), 368; https://doi.org/10.3390/land9100368 (https://doi.org/10.3390/land9100368) - 02 Oct 2020

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Abstract Soil erosion determines landforms, soil formation and distribution, soil fertility, and land degradation processes. In arid and semiarid ecosystems, soil erosion is a key process to understand, foresee, and prevent desertification. Addressing soil erosion throughout watersheds scales requires basic information to develop soil **[...] Read more.**

(This article belongs to the Section **Soil-Sediment-Water Systems (/journal/land/sections/Soil-Sediment-Water-System)**)

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Open Access Article (/2073-445X/9/10/367/pdf)

Implementation and Advancement of a Rural Residential Concentration Strategy in the Suburbs of Shanghai (/2073-445X/9/10/367)

by Yishao Shi (https://sciprofiles.com/profile/252663), Haoran Ren (https://sciprofiles.com/profile/author/Q1phT29ZQUI1YlE4Sk1XZTdZMFk5dkJtQmtDaGtXOUx2cmdMQUtlT2V4RT0=), Xiatong Guo (https://sciprofiles.com/profile/author/WkdvSTRwTThaNFhiR0k1Q2I4VXNYeFRXRFlpSlF1Z2txR0NOMkZaYmh5OD0=) and Tianhui Tao (https://sciprofiles.com/profile/870593)

Land **2020**, *9*(10), 367; https://doi.org/10.3390/land9100367 (https://doi.org/10.3390/land9100367) - 01 Oct 2020

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Abstract Rural residential concentration was one of the important tasks of the “Three Concentrations” strategy implemented in the suburbs of Shanghai in the mid-1990s. The aims of this paper are to comprehensively evaluate the process, pattern and effects of residential concentration in the suburbs **[...] Read more.**

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Open Access Article (/2073-445X/9/10/366/pdf)

Evaluation of the Objectives and Concerns of Farmers to Apply Different Agricultural Managements in Olive Groves: The Case of Estepa Region (Southern, Spain) (/2073-445X/9/10/366)

by Antonio Alberto Rodríguez Sousa (https://sciprofiles.com/profile/742411), Carlos Parra-López (https://sciprofiles.com/profile/1237362), Samir Sayadi-Gmada (https://sciprofiles.com/profile/523216), Jesús M. Barandica (https://sciprofiles.com/profile/853143) and Alejandro J. Rescia (https://sciprofiles.com/profile/259515)

Land **2020**, *9*(10), 366; https://doi.org/10.3390/land9100366 (https://doi.org/10.3390/land9100366) - 01 Oct 2020

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Abstract Olive groves are representative of the landscape and culture of Spain. They occupy 2.5 M ha (1.5 M ha in Andalusia) and are characterised by their multifunctionality. In recent years, socio-economic and environmental factors (i.e., erosion) have compromised their sustainability, leading farmers to **[...] Read more.**

(This article belongs to the Special Issue **Land, Innovation, and Social Good (/journal/land/special_issues/land_innovation)**)

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Open Access Article (/2073-445X/9/10/365/pdf)

The Effect of Grazing on the Temperature Regime of the Alas Soils of Central Yakutia (/2073-445X/9/10/365)

by Victor Makarov (https://sciprofiles.com/profile/1144229), Grigory Savvinov (https://sciprofiles.com/profile/author/cW9UZWJKTnRKVkYyUVhYRUs1TEtzV3NBUXVoYTN5blpBcFdIaEJxR0hNZz0=), Lyudmila Gavrilieva (https://sciprofiles.com/profile/author/TUZZYVJpLzFCWTdtZGwrTUZwcnNCUT09) and Anna Gololobova (https://sciprofiles.com/profile/1271708)

Land **2020**, *9*(10), 365; https://doi.org/10.3390/land9100365 (https://doi.org/10.3390/land9100365) - 01 Oct 2020

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Abstract There are numerous studies on the effect of grazing on the physical and chemical parameters of soils. However, the impact of grazing on the temperature regime of the alas soils in Central Yakutia is still poorly understood. This paper presents the results of **[...] Read more.**

(This article belongs to the Special Issue **Permafrost Landscape (/journal/land/special_issues/permafrost_landscape)**)

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Open Access Article (/2073-445X/9/10/364/pdf)

Proportional Variation of Potential Groundwater Recharge as a Result of Climate Change and Land-Use: A Study Case in Mexico (/2073-445X/9/10/364)

by Jesús Guerrero-Morales (https://sciprofiles.com/profile/1236216), Carlos R. Fonseca (https://sciprofiles.com/profile/841127), Miguel A. Goméz-Albores (https://sciprofiles.com/profile/376292), María Laura Sampedro-Rosas (https://sciprofiles.com/profile/author/MG91Q204N21LSWN6Njdmb25BdDN6Zz09) and Sonia Emilia Silva-Gómez (https://sciprofiles.com/profile/author/cnpUN1M5SUdlYVNQanJjSjVoSldqR01MRGc1aUxqdUZNN2xWYVNlcUJGRT0=)

Land **2020**, *9*(10), 364; https://doi.org/10.3390/land9100364 (https://doi.org/10.3390/land9100364) - 01 Oct 2020

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Abstract This work proposes a methodology whereby the selection of hydrologic and land-use cover change (LUCC) models allows an assessment of the proportional variation in potential groundwater recharge (PGR) due to both land-use cover change (LUCC) and some climate change scenarios for 2050. The **[...] Read more.**

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Open Access Article (/2073-445X/9/10/363/pdf)

Agroforestry Innovation through Planned Farmer Behavior: Trimming in Pine–Coffee Systems (/2073-445X/9/10/363)

by Edi Dwi Cahyono (https://sciprofiles.com/profile/1223316), Salsabila Fairuzzana (https://sciprofiles.com/profile/1224862), Deltanti Willianto (https://sciprofiles.com/profile/1224557), Eka Pradesti (https://sciprofiles.com/profile/1224864), Niall P. McNamara (https://sciprofiles.com/profile/1224865), Rebecca L. Rowe (https://sciprofiles.com/profile/1224866) and Meine van Noordwijk (https://sciprofiles.com/profile/224225)

Land **2020**, *9*(10), 363; https://doi.org/10.3390/land9100363 (https://doi.org/10.3390/land9100363) - 30 Sep 2020

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Abstract Knowledge transfer depends on the motivations of the target users. A case study of the intention of Indonesian coffee farmers to use a tree canopy trimming technique in pine–based agroforestry highlights path-dependency and complexity of social-ecological relationships. Farmers have contracts permitting coffee cultivation **[...] Read more.**

(This article belongs to the Special Issue **Agroforestry-Based Ecosystem Services (/journal/land/special_issues/agroforestry_ES)**)

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Open Access Article (/2073-445X/9/10/362/pdf)

Towards a Walkable City: Principal Component Analysis for Defining Sub-Centralities in the Santiago Metropolitan Area (/2073-445X/9/10/362)

by Juan Correa-Parra (https://sciprofiles.com/profile/1262280), José Francisco Vergara-Perucich (https://sciprofiles.com/profile/846658) and Carlos Aguirre-Nuñez (https://sciprofiles.com/profile/354217)

Land **2020**, *9*(10), 362; https://doi.org/10.3390/land9100362 (https://doi.org/10.3390/land9100362) - 30 Sep 2020

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Abstract This article presents a methodology for evaluating the potential for an urban area to become a 15-min city based on its existing essential urban functions. To elaborate this methodology, the research focused on the Metropolitan Area of Santiago de Chile, by identifying 28 **[...] Read more.**

(This article belongs to the Section **Land Use Planning/Land Planning (/journal/land/sections/land_use_planning)**)

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Open Access Article (/2073-445X/9/10/361/pdf)

Extent of Soil Acidity in No-Tillage Systems in the Western Cape Province of South Africa (/2073-445X/9/10/361)

by Adriaan Liebenberg (https://sciprofiles.com/profile/1233777), John Richard (Ruan) van der Nest (https://sciprofiles.com/profile/1231482), Ailsa G. Hardie (https://sciprofiles.com/profile/author/WXdqTW5lNlF5dEdqNElObjFkdmw3NEx6R1Jaei82ZnNOYnk0SHlPa09vQT0=), Johan Labuschagne (https://sciprofiles.com/profile/author/ei8xanBSU2dDSXM5cjlWNUc4ajk5cGJQTUxldkpKTHRwSVlBckxqUzBlMD0=) and Pieter Andreas Swanepoel (https://sciprofiles.com/profile/1022582)

Land **2020**, *9*(10), 361; https://doi.org/10.3390/land9100361 (https://doi.org/10.3390/land9100361) - 29 Sep 2020

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Abstract Roughly 90% of farmers in the Western Cape Province of South Africa have converted to no-tillage systems to improve the efficiency of crop production. Implementation of no-tillage restricts the mixing of soil amendments, such as limestone, into soil. Stratification of nutrients and pH **[...] Read more.**

(This article belongs to the Special Issue **Soil Tillage Systems and Conservative Agriculture (/journal/land/special_issues/Soil_Agriculture)**)

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Open Access Article (/2073-445X/9/10/360/pdf)

Does Social Capital Help to Reduce Farmland Abandonment? Evidence from Big Survey Data in Rural China (/2073-445X/9/10/360)

by Xin Deng (https://sciprofiles.com/profile/698071), Miao Zeng (https://sciprofiles.com/profile/879149), Dingde Xu (https://sciprofiles.com/profile/496138) and Yanbin Qi (https://sciprofiles.com/profile/677419)

Land **2020**, *9*(10), 360; **https://doi.org/10.3390/land9100360 (https://doi.org/10.3390/land9100360)** - 29 Sep 2020

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Abstract At a time when COVID-19 is sweeping the world, farmland abandonment is obviously not conducive to solving food security problems. Since the formal institutions of local government in China have not been effective in the reduction of farmland abandonment, this study aims to **[...] Read more.**

(This article belongs to the Special Issue **Landscape Transformation and Changes in Land Use Intensity (/journal/land/special_issues/landscape_transformation)**)

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Open Access Article (/2073-445X/9/10/359/pdf)

Gatekeeping Access: Shea Land Formalization and the Distribution of Market-Based Conservation Benefits in Ghana's CREMA (/2073-445X/9/10/359)

by Mengina Gilli (https://sciprofiles.com/profile/author/UVc1dmF0NWFFYnRtZFNrQnI1eXpDSDM5N3BlY2FBMGtleTRMcGRQVXBuND0=), Muriel Côte (https://sciprofiles.com/profile/1251400) and Gretchen Walters (https://sciprofiles.com/profile/1091444)

Land **2020**, *9*(10), 359; **https://doi.org/10.3390/land9100359 (https://doi.org/10.3390/land9100359)** - 29 Sep 2020

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Abstract Community Resource Management Areas (CREMAs) in Ghana combine conservation and development objectives and were introduced in the year 2000. In some cases, they have connected collectors of shea (*Vitellaria paradoxa*) nuts with certified organic world markets, which can be understood as **[...] Read more.**

(This article belongs to the Section **Socio-Economic and Political Aspects of Contemporary and Historical Land Issues (/journal/land/sections/Socio-Economic)**)

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Open Access Article (/2073-445X/9/10/358/pdf)

Water Erosion Reduction Using Different Soil Tillage Approaches for Maize (*Zea mays* L.) in the Czech Republic (/2073-445X/9/10/358)

by Ladislav Menšík (https://sciprofiles.com/profile/1091043), David Kincl (https://sciprofiles.com/profile/1270413), Pavel Nerušil (https://sciprofiles.com/profile/author/SlUvQkVmNUQxSWgwZHpoM3V2WDhJQT09), Jan Srbek (https://sciprofiles.com/profile/author/NGROWDBVakZqakpwR0Jac29MNUl6eEJWWlA3QzZGSENNbG9RVHRqWkpOTT0=), Lukáš Hlisnikovský (https://sciprofiles.com/profile/722216) and Vladimír Smutný (https://sciprofiles.com/profile/author/Z1Q3c25LWWF1a3J3bjZsMzdKRDF0RzdrSXU3OEJtYkx4cjJMc2tWeGZkcz0=)

Land **2020**, *9*(10), 358; **https://doi.org/10.3390/land9100358 (https://doi.org/10.3390/land9100358)** - 28 Sep 2020

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Abstract In today's agriculture, maize is considered to be one of the major feed, food and industrial crops. Cultivation of maize by inappropriate agricultural practices and on unsuitable sites is connected with specific risks of soil degradation, mainly due to water erosion of the **[...] Read more.**

(This article belongs to the Special Issue **Soil Tillage Systems and Conservative Agriculture (/journal/land/special_issues/Soil_Agriculture)**)

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Open Access Article (/2073-445X/9/10/357/pdf)

Urban Cadastral Situation in Ecuador: Analysis to Determine the Degree of Proximity of the Cadastral Systems to the 3D Cadastral Model (/2073-445X/9/10/357)

by Julia Velastegui-Cáceres (https://sciprofiles.com/profile/1190812), Víctor M. Rodríguez-Espinosa (https://sciprofiles.com/profile/1146335) and Oswaldo Padilla-Almeida (https://sciprofiles.com/profile/1269644)

Land **2020**, *9*(10), 357; **https://doi.org/10.3390/land9100357 (https://doi.org/10.3390/land9100357)** - 27 Sep 2020

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Abstract As 3D cadastres offer advantages in several areas by providing information with greater accuracy and a high level of detail, a diagnosis of the cadastral situation is required prior to the implementation of a 3D cadastral model. Therefore, this study focuses on diagnosing **[...] Read more.**

(This article belongs to the Special Issue **3D Cadastre (/journal/land/special_issues/3D_Cadastre)**)

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Open Access Article (/2073-445X/9/10/356/pdf)

Spatial and Ecological Farmer Knowledge and Decision-Making about Ecosystem Services and Biodiversity (/2073-445X/9/10/356)

by Daniel Kpienbaareh (https://sciprofiles.com/profile/1222085), Rachel Bezner Kerr (https://sciprofiles.com/profile/author/bG1VWkhvdFRCRDV3dUY3OWF2Z1Zha3B2eGEyNzhQRktFVXRaelRqSjlNVT0=), Isaac Luginaah (https://sciprofiles.com/profile/1022750), Jinfei Wang (https://sciprofiles.com/profile/620574), Esther Lupafya (https://sciprofiles.com/profile/author/YzB0ZmhRdnpndnJ6L1JxeFhVbC9rV1QzUmRFQnpjUlBvZkgxUndHUHArRT0=), Laifolo Dakishoni (https://sciprofiles.com/profile/author/dE8rVzJlc1ZGZVZGMGxodzYxVUFpNEs4TDV2b3lPOFZHV1lyVVBjRnV4VT0=) and Lizzie Shumba (https://sciprofiles.com/profile/author/c2ZreXErLys5SS9ERG16UTdpcEFlcHJuQlpDNm05NE0yeXZISEM3YlRhTT0=)

Land **2020**, *9*(10), 356; **https://doi.org/10.3390/land9100356 (https://doi.org/10.3390/land9100356)** - 27 Sep 2020

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Abstract Amid climate change, biodiversity loss and food insecurity, there is the growing need to draw synergies between micro-scale environmental processes and practices,

and macro-level ecosystem dynamics to facilitate conservation decision-making. Adopting this synergistic approach can improve crop yields and profitability more sustainably, enhance [...] **Read more.**

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Open Access Article (/2073-445X/9/10/355/pdf)

Quantifying Climate-Wise Connectivity across a Topographically Diverse Landscape (/2073-445X/9/10/355)

by **Morgan Gray (https://sciprofiles.com/profile/1210239)**,
Elisabeth Micheli (https://sciprofiles.com/profile/author/aEJscWZQSXIxa0M4aVRVaEhTL2txYndkVm9uVStVZ2tVdGRxdG9hckFkUT0=),
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Adina Merenlender (https://sciprofiles.com/profile/author/K1RVcVZuUitwOUQ1T1haSGNtYWZKRjdjWURFYVJWQzh3UnhuNVdBNEJoMD0=)

Land **2020**, *9*(10), 355; **https://doi.org/10.3390/land9100355 (https://doi.org/10.3390/land9100355)** - 26 Sep 2020

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Abstract Climate-wise connectivity is essential to provide species access to suitable habitats in the future, yet we lack a consistent means of quantifying climate adaptation benefits of habitat linkages. Species range shifts to cooler climates have been widely observed, suggesting we should protect pathways **[...] Read more.**

(This article belongs to the Special Issue **Dynamic Landscape Connectivity (/journal/land/special_issues/landscape_connectivity)**)

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Open Access Article (/2073-445X/9/10/354/pdf)

The Grain for Green Project May Enrich the Mercury Concentration in a Small Karst Catchment, Southwest China (/2073-445X/9/10/354)

by **Rui Qu (https://sciprofiles.com/profile/837557)** and **Guilin Han (https://sciprofiles.com/profile/530014)**

Land **2020**, *9*(10), 354; **https://doi.org/10.3390/land9100354 (https://doi.org/10.3390/land9100354)** - 25 Sep 2020

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Abstract The Chinese project, better known as the Grain for Green Project (GGP), has changed the land-use type in the karst area of Puding county, Guizhou province, southwest China, and this study is aimed at evaluating the Hg distribution and determining factors in soils **[...] Read more.**

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Open Access Article (/2073-445X/9/10/353/pdf)

A Discounted Cash Flow and Capital Budgeting Analysis of Silvopastoral Systems in the Amazonas Region of Peru (/2073-445X/9/10/353)

by **Stephanie Chizmar (https://sciprofiles.com/profile/1228897)**, **Miguel Castillo (https://sciprofiles.com/profile/1269172)**,
Dante Pizarro (https://sciprofiles.com/profile/1236935),
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Raul Rivera (https://sciprofiles.com/profile/author/SUdsTW42REdud1pwWW55UkJzdExNOW9vd0ovN0h5dnMwYmN0eGlDMllFOD0=),
Erin Sills (https://sciprofiles.com/profile/27829), **Robert Abt (https://sciprofiles.com/profile/author/dWZJQ3dybzErOGxHTXRLVnMxcHVwUT09)**,
Rajan Parajuli (https://sciprofiles.com/profile/403941) and **Frederick Cubbage (https://sciprofiles.com/profile/977159)**

Land **2020**, *9*(10), 353; **https://doi.org/10.3390/land9100353 (https://doi.org/10.3390/land9100353)** - 25 Sep 2020

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Abstract Silvopasture is a type of agroforestry that could deliver ecosystem services and support local livelihoods by integrating trees into pasture-based livestock systems. This study modeled the financial returns from silvopastures, planted forests, and conventional cattle-pasture systems in Amazonas, Peru using capital budgeting techniques. **[...] Read more.**

(This article belongs to the Special Issue **Agroforestry-Based Ecosystem Services (/journal/land/special_issues/agroforestry_ES)**)

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Open Access Article (/2073-445X/9/10/352/pdf)

'Mind the Gap': Reconnecting Local Actions and Multi-Level Policies to Bridge the Governance Gap. An Example of Soil Erosion Action from East Africa (/2073-445X/9/10/352)

by **Claire Kelly (https://sciprofiles.com/profile/890644)**, **Maarten Wynants (https://sciprofiles.com/profile/1265526)**,
Linus K. Munishi (https://sciprofiles.com/profile/739242),
Mona Nasseri (https://sciprofiles.com/profile/author/QU5YNEVCK0ppeGdlalJQVHJDbWM2dHF3Mm9OQ0UzdnY2TDZ2eHZ6OGRoVmJQcllGWFl1cDRJend4NG9HckRPcg==)
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Patrick A. Ndakidemi (https://sciprofiles.com/profile/698639)
Land **2020**, *9*(10), 352; https://doi.org/10.3390/land9100352 (https://doi.org/10.3390/land9100352) - 25 Sep 2020
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Abstract Achieving change to address soil erosion has been a global yet elusive goal for decades. Efforts to implement effective solutions have often fallen short due to a lack of sustained, context-appropriate and multi-disciplinary engagement with the problem. Issues include prevalence of short-term funding **[...] Read more.**

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Open Access Article (/2073-445X/9/10/351/pdf)

Typology of Climate Change Adaptation Measures in Polish Cities up to 2030 (/2073-445X/9/10/351)

by Eliza Kalbarczyk (https://sciprofiles.com/profile/1401524) and Robert Kalbarczyk (https://sciprofiles.com/profile/423851)
Land **2020**, *9*(10), 351; https://doi.org/10.3390/land9100351 (https://doi.org/10.3390/land9100351) - 24 Sep 2020
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Abstract Poland, like other countries in the world, increasingly experiences the ongoing climate change. However, the level of preparation of the country and its society for climate change in the second decade of the 21st century can be evaluated as low. The Municipal Adaptation **[...] Read more.**
(This article belongs to the Special Issue **Climate Adaptation and Biodiversity Conservation (/journal/land/special_issues/Climate_Adaptation_Biodiversity_Conservation)**)

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Open Access Article (/2073-445X/9/10/350/pdf)

Conflict over the Use of Hagia Sophia: The Legal Case (/2073-445X/9/10/350)

by Yakup Emre Coruhlu (https://sciprofiles.com/profile/1110711), Bayram Uzun (https://sciprofiles.com/profile/author/cDNEQytvc0Z5aGhlcE4vYW1ueE1tRk9LQ3orYlpvTkQ2ZElDaFY1Q1lqOD0=) and Okan Yildiz (https://sciprofiles.com/profile/1109726)
Land **2020**, *9*(10), 350; https://doi.org/10.3390/land9100350 (https://doi.org/10.3390/land9100350) - 24 Sep 2020
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Abstract The historical progress of Hagia Sophia encompasses four different periods. Dating back to 360 AD, this unique structure was the largest church built in Istanbul during the Roman Period. In the second period, Fatih Sultan Mehmet conquered Istanbul in 1453 and personally dedicated **[...] Read more.**
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Open Access Editor's Choice Article (/2073-445X/9/10/349/pdf)

Predicted Maps for Soil Organic Matter Evaluation: The Case of Abruzzo Region (Italy) (/2073-445X/9/10/349)

by Chiara Piccini (https://sciprofiles.com/profile/998520), Rosa Francaviglia (https://sciprofiles.com/profile/409351) and Alessandro Marchetti (https://sciprofiles.com/profile/author/RWJQL21QT0ZMV1VsQ0IzZUVQbTZndUtFWTI1R0NJOG94MnlVT1ZIMmdGOWVmZDN5d1pzbmRDT3FweDBNeVI5
Land **2020**, *9*(10), 349; https://doi.org/10.3390/land9100349 (https://doi.org/10.3390/land9100349) - 24 Sep 2020
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Abstract Organic matter, an important component of healthy soils, may be used as an indicator in sustainability assessments. Managing soil carbon storage can foster agricultural productivity and environmental quality, reducing the severity and costs of natural phenomena. Thus, accurately estimating the spatial variability of **[...] Read more.**
(This article belongs to the Special Issue **Soil Management for Sustainability (/journal/land/special_issues/sus_Soil_Management)**)

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Open Access Article (/2073-445X/9/10/348/pdf)

Refining the Tiered Approach for Mapping and Assessing Ecosystem Services at the Local Scale: A Case Study in a Rural Landscape in Northern Germany (/2073-445X/9/10/348)

by Marie Perennes (https://sciprofiles.com/profile/1212072), C. Sylvie Campagne (https://sciprofiles.com/profile/1149102), Felix Müller (https://sciprofiles.com/profile/author/STQ2aS92bStlWUNaTEpsOS90eEFRdDE5SlhadUlySCtFWFBsRmE1akZGTT0=), Philip Roche (https://sciprofiles.com/profile/author/bFNJTUE0SStCelVMT1BwdE91WFVuQ1NyNnFZUDVyZDU0UnVjaWhwU2RrRT0=) and Benjamin Burkhard (https://sciprofiles.com/profile/author/YU9OWlVEMXBManlyU0pJajVBaWVONTlLUU0rc3pnOGIvVEwxeklVbWxqaz0=)
Land **2020**, *9*(10), 348; https://doi.org/10.3390/land9100348 (https://doi.org/10.3390/land9100348) - 24 Sep 2020
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Abstract Spatially explicit assessments of ecosystem services (ES) potentials are a key component in supporting a sustainable land use management. The ES matrix method is a commonly used approach as it allows for a comparably fast, comprehensible and accessible ES assessment. As it is **[...] Read more.**

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Global and Local Modeling of Land Use Change in the Border Cities of Laredo, Texas, USA and Nuevo Laredo, Tamaulipas, Mexico: A Comparative Analysis (/2073-445X/9/10/347)

by Chunhong Zhao (https://sciprofiles.com/profile/1264891), Jennifer L.R. Jensen (https://sciprofiles.com/profile/48226) and Russell Weaver (https://sciprofiles.com/profile/author/TUpGRmdZRlVyL0VvaTYrb29YUExRSjVCbWFCa2FuZE1oN2UxVm0zL1ZiST0=)

Land **2020**, *9*(10), 347; https://doi.org/10.3390/land9100347 (https://doi.org/10.3390/land9100347) - 24 Sep 2020

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Abstract This paper estimates global logistic regression and logistic geographically weighted regression (GWR) models of urban growth in the adjacent border cities of Laredo, Texas in the United States and Nuevo Laredo, Tamaulipas in Mexico, for two time periods from 1985 to 2014. Historical **[...] Read more.**

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Evaluating the Efficiency of Different Regression, Decision Tree, and Bayesian Machine Learning Algorithms in Spatial Piping Erosion Susceptibility Using ALOS/PALSAR Data (/2073-445X/9/10/346)

by Shahab S. Band (https://sciprofiles.com/profile/316438), Saeid Janizadeh (https://sciprofiles.com/profile/1201023), Sunil Saha (https://sciprofiles.com/profile/209599), Kaustuv Mukherjee (https://sciprofiles.com/profile/author/dk13bTlaakNNMHlwbWZ5eGRidU1JZThibnc3bk9wRGxPY2VVK1VzRkgzaVRLSjVJTU8rZ2x3UEQzdGExempRTQ==), Saeid Khosrobeigi Bozchaloei (https://sciprofiles.com/profile/author/UWduNWYrditVRnlWcnJNQ0pnVndZS1FGNHdvWjB1NkJOdm1NUnprT1RYdz0=), Artemi Cerdà (https://sciprofiles.com/profile/289235), Manouchehr Shokri (https://sciprofiles.com/profile/856361) and Amirhosein Mosavi (https://sciprofiles.com/profile/414895)

Land **2020**, *9*(10), 346; https://doi.org/10.3390/land9100346 (https://doi.org/10.3390/land9100346) - 23 Sep 2020

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Abstract Piping erosion is one form of water erosion that leads to significant changes in the landscape and environmental degradation. In the present study, we evaluated piping erosion modeling in the Zarandieh watershed of Markazi province in Iran based on random forest (RF), support **[...] Read more.**

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Accessing and Mobilizing "New" Data to Evaluate Emerging Environmental Impacts on Semi-Aquatic Mammals (/2073-445X/9/10/345)

by Glynnis A. Hood (https://sciprofiles.com/profile/1192021)

Land **2020**, *9*(10), 345; https://doi.org/10.3390/land9100345 (https://doi.org/10.3390/land9100345) - 23 Sep 2020

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Abstract This paper describes how knowledge mobilization evolved during a study that assessed a proposed increase in industrial water withdrawals from the Athabasca River in northern Alberta, Canada, and potential impacts on a suite of freshwater semi-aquatic mammals in the broader ecosystem. The oil **[...] Read more.**

(This article belongs to the Special Issue **Parks and Protected Areas: Mobilizing Knowledge for Effective Decision-Making (/journal/land/special_issues/parks_MK)**)

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Open Access Article (/2073-445X/9/10/344/pdf)

Could Mapping Initiatives Catalyze the Interpretation of Customary Land Rights in Ways that Secure Women's Land Rights? (/2073-445X/9/10/344)

by Gaynor Paradza (https://sciprofiles.com/profile/620859), Lebogang Mokwena (https://sciprofiles.com/profile/author/VVRvNDJaSVo0VjVqc0poZC9kT251VWlRUDByQkhPWnhHalZON1ZIQ1JNST0=) and Walter Musakwa (https://sciprofiles.com/profile/874793)

Land **2020**, *9*(10), 344; https://doi.org/10.3390/land9100344 (https://doi.org/10.3390/land9100344) - 23 Sep 2020

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Abstract Although land forms the basis for marginal livelihoods in Sub-Saharan Africa, the asset is more strategic for women as they usually hold derived and dependent rights to land in customary tenure areas. Initiatives to secure women's land tenure in customary areas are undermined **[...] Read more.**

(This article belongs to the Special Issue **Land, Innovation, and Social Good (/journal/land/special_issues/land_innovation)**)

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Urbanization and Increasing Flood Risk in the Northern Coast of Central Java—Indonesia: An Assessment towards Better Land Use Policy and Flood Management (/2073-445X/9/10/343)

by Wiwandari Handayani (https://sciprofiles.com/profile/1118967), Uchendu Eugene Chigbu (https://sciprofiles.com/profile/442908),

Iwan Rudiarto (https://sciprofiles.com/profile/241697) and Intan Hapsari Surya Putri (https://sciprofiles.com/profile/1149103)
Land **2020**, *9*(10), 343; https://doi.org/10.3390/land9100343 (https://doi.org/10.3390/land9100343) - 23 Sep 2020
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Abstract This study explores urbanization and flood events in the northern coast of Central Java with river basin as its unit of analysis. Two types of analysis were applied (i.e., spatial data and non-spatial data analysis) at four river basin areas in Central Java—Indonesia. **[...] Read more.**
(This article belongs to the Special Issue Land, Women, Youths, and Land Tools or Methods (/journal/land/special_issues/land_women))

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Open Access Article (/2073-445X/9/10/342/pdf)

Global and Regional Implications of Biome Evolution on the Hydrologic Cycle and Climate in the NCAR Dynamic Vegetation Model (/2073-445X/9/10/342)

by Jessica Levey (https://sciprofiles.com/profile/1229907) and Jung-Eun Lee (https://sciprofiles.com/profile/562286)
Land **2020**, *9*(10), 342; https://doi.org/10.3390/land9100342 (https://doi.org/10.3390/land9100342) - 23 Sep 2020
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Abstract Vegetation influences climate by altering water and energy budgets. With intensifying threats from anthropogenic activities, both terrestrial biomes and climate are expected to change, and the need to understand land–atmosphere interactions will become increasingly crucial. We ran a climate model coupled with a **[...] Read more.**
(This article belongs to the Special Issue Land Use and Climate Change (/journal/land/special_issues/landuse_climatechange))

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Open Access Feature Paper Editor's Choice Article (/2073-445X/9/10/341/pdf)

Planning for Dynamic Connectivity: Operationalizing Robust Decision-Making and Prioritization Across Landscapes Experiencing Climate and Land-Use Change (/2073-445X/9/10/341)

by Megan K. Jennings (https://sciprofiles.com/profile/883584), Emily Haeuser (https://sciprofiles.com/profile/1236315), Diane Foote (https://sciprofiles.com/profile/author/ajVTcXBQQjNYM3U5V1QrL0Y3c3dqQT09), Rebecca L. Lewison (https://sciprofiles.com/profile/883583) and Erin Conlisk (https://sciprofiles.com/profile/author/WTc0S0FqdVFvTytOK1VKakdvWVU5dzF6TEI2elVuTzlYN1B3U0hxamhOQT0=)
Land **2020**, *9*(10), 341; https://doi.org/10.3390/land9100341 (https://doi.org/10.3390/land9100341) - 23 Sep 2020
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Abstract Preserving landscape connectivity is one of the most frequently recommended strategies to address the synergistic threats of climate change, habitat fragmentation, and intensifying disturbances. Although assessments to develop plans for linked and connected landscapes in response to climate and land-use change have been **[...] Read more.**
(This article belongs to the Special Issue Dynamic Landscape Connectivity (/journal/land/special_issues/landscape_connectivity))

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Open Access Communication (/2073-445X/9/10/340/pdf)

Use of 3-Dimensional Videography as a Non-Lethal Way to Improve Visual Insect Sampling (/2073-445X/9/10/340)

by Michael F. Curran (https://sciprofiles.com/profile/author/cGpBUTNNWHVHZVFPMXJGR1JYdW5KcjgrMTBOUWJNa1kwRm8wTVc3V1lMbz0=), Kyle Summerfield (https://sciprofiles.com/profile/author/V3dzNTVNSmFwTG53UmtEQkpjTGwyQys2cGdzWU1kMnRJVkdqNjZtNUcrRT0=), Emma-Jane Alexander (https://sciprofiles.com/profile/author/OFpJYzFYN1ZNanAwMS9kN1Q5emlwY0hmQktCcGJ1eklvU2k4LzBpa1ZTVT0=), Shawn G. Lanning (https://sciprofiles.com/profile/author/VEkvak1JUEUrZkNpVmZOMVBDTFNldz09), Anna R. Schwyter (https://sciprofiles.com/profile/1264502), Melanie L. Torres (https://sciprofiles.com/profile/author/MDY2VC9GYkhYaHl1OXc1ZzdJd2dwSTRTTXZaN2lteWt2aGlYOXpCaWFUND0=), Scott Schell (https://sciprofiles.com/profile/author/NGlXdUQ3QzJlK2JlUzFYd3ZRM3lQN0hUT3Y4Q01TWmV1Z0ZiT0x0NXE0RT0=), Karen Vaughan (https://sciprofiles.com/profile/author/ZUFzalFORFNCL1lVS08yeGt1dlYwMVUyODByWXpDQWkrQVNYSXdhWVhYST0=), Timothy J. Robinson (https://sciprofiles.com/profile/author/UGVLa01oR0RWR2pDZ0hNZnJkSnk2QmJLTTY4YW0wMVk4ZlJKaEZERmdHTT0=) and Douglas I. Smith (https://sciprofiles.com/profile/author/OGJzS2EyTWIzcTc2VjF3dW9hNDN3V0hESlk4bFBiTVduK2FzM21QQU5kND0=)
Land **2020**, *9*(10), 340; https://doi.org/10.3390/land9100340 (https://doi.org/10.3390/land9100340) - 23 Sep 2020
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Abstract Insects, the most diverse and abundant animal species on the planet, are critical in providing numerous ecosystem services which are significant to the United Nation's Sustainable Development Goals (UN-SDGs). In addition to the UN-SDGs, the UN has declared the period 2021–2030 as the **[...] Read more.**
(This article belongs to the Special Issue Restoring Degraded Lands to Attain UN-SDGs (/journal/land/special_issues/degraded_land_UN-SDGs))

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Volume 8, September (/2073-445X/9/9)

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Article

Challenging a Global Land Surface Model in a Local Socio-Environmental System

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Abstract: Land surface models (LSMs) predict how terrestrial fluxes of carbon, water, and energy change with abiotic drivers to inform the other components of Earth system models. Here, we focus on a single human-dominated watershed in southwestern Michigan, USA. We compare multiple processes in a commonly used LSM, the Community Land Model (CLM), to observational data at the single grid cell scale. For model inputs, we show correlations (Pearson's R) ranging from 0.46 to 0.81 for annual temperature and precipitation, but a substantial mismatch between land cover distributions and their changes over time, with CLM correctly representing total agricultural area, but assuming large areas of natural grasslands where forests grow in reality. For CLM processes (outputs), seasonal changes in leaf area index (LAI; phenology) do not track satellite estimates well, and peak LAI in CLM is nearly double the satellite record (5.1 versus 2.8). Estimates of greenness and productivity, however, are more similar between CLM and observations. Summer soil moisture tracks in timing but not magnitude. Land surface reflectance (albedo) shows significant positive correlations in the winter, but not in the summer. Looking forward, key areas for model improvement include land cover distribution estimates, phenology algorithms, summertime radiative transfer modelling, and plant stress responses.

Keywords: Community Land Model; carbon cycle; landscape ecology; model benchmarking

1. Introduction

Across much of the world, human impacts are an important component of the land surface [1]. Growth and loss of urban populations [2], changes in certain land areas and habitability [3], and changing agricultural and forestry practices [4,5] have all changed the ways in which energy and matter move through and among landscapes. In an Earth system modeling context, human impacts are mostly represented as changes in the footprint of urban areas and the parameters of those urban areas, changes in the extent and types of agricultural practices, changes in nitrogen deposition, and changes in global atmospheric CO_2 concentration [6]. These changes over time can in turn impact water movement through a landscape [7], albedo and heat distribution [8], and the carbon cycle through agricultural practices (e.g., tilling, irrigation, fertilization; [4]), nitrogen fertilization [9], and land conversion [10]. While much of the focus in the Earth system modeling community continues to be on 'natural' systems (e.g., [11]), more emphasis on human-dominated landscapes would both improve the performance

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Spatial Variation in Environmental Impacts of Sugarcane Expansion in Brazil

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Abstract: In the past decades, sugarcane production in Brazil has expanded rapidly to meet increasing ethanol demand. The large majority of this expansion occurred in Sao Paulo state. We used an integrated approach considering location-specific biophysical characteristics to determine the environmental impacts of sugarcane expansion and their spatial variation in Sao Paulo state (2004–2015). The included environmental impacts are greenhouse gas (GHG) emissions, biodiversity, soil erosion, and water quantity. All impacts were integrated into a single environmental performance index to determine trade-offs between impacts. Our results show a strong spatial variation in environmental impacts and trade-offs between them. The magnitude and direction of these impacts are mostly driven by the type of land use change and by the heterogeneity of the biophysical conditions. Areas where expansion of sugar cane has resulted in mostly negative environmental impacts are located in the center and east of the state (related to the change of shrublands, eucalyptus, and forest), while areas where sugar cane expansion has resulted in positive impacts are located in the center-west and north (related to the change of annual crops). Identifying areas with mainly positive and negative impacts enables the development of strategies to mitigate negative effects and enhance positive ones for future sugarcane expansion.

Keywords: sugarcane; land-use change; environmental impacts; trade-offs; spatially explicit; biofuels

1. Introduction

The use of biomass for energy purposes is recognized as a key pillar for the reduction of greenhouse gas emissions (GHG) and meeting worldwide climate change mitigation targets [1–3]. In the past years, global biofuel production has increased from 37.5 thousand tons of oil equivalents (ktoe) in 2007 to 84.1 ktoe in 2017, and this trend is expected to continue [2]. Ethanol accounts for the largest share of biofuel production, with Brazil positioned as the world's second largest producer after the USA [4,5]. Brazil produces ethanol primarily from sugarcane and has developed an efficient model to produce sugar and ethanol in an integrated manner [6]. This development has led to an increase in sugarcane production and triggered more than 5.2 million hectares of land to be converted at the country level between 2000 and 2018 [7].

The sustainability of the Brazilian ethanol sector has been the object of political and societal debate. Despite the potential social, economic, and environmental benefits [5] associated with biofuel production, there are also major concerns about the sector's sustainability performance [8]. Many of the concerns are related to the environmental impacts of land use change (LUC) directly or indirectly caused by sugarcane expansion, and include, e.g., deforestation, habitat loss, soil erosion, GHG emissions, and impacts on water availability and quality [8–10]. Therefore, in recent years, major attention has been given to monitor and assess the impacts of sugarcane expansion on biodiversity, soil, water, and GHG emissions [8,9,11].