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Maldives is among the countries most vulnerable to the impacts of climate change as it is a small island nation with extremely low elevations. Maldives is also very vulnerable to impacts of rising air and sea surface temperatures and changes in rainfall patterns. Climate change impacts will therefore impose significant negative consequences on the Maldivian economy and society. Some of the priority vulnerabilities to climate change are land loss and beach erosion, infrastructure damage, degradation of coral reefs, and adverse impacts on water resources, food security, human health, and the overall economy.

Sustainable coastal resources management is of particular importance to Maldives, such that all regulations involving various development activities have coastal components. Despite the government’s continued efforts in improving and sustaining coastal resources management, critical issues remain, such as the need for systematized coastal monitoring, clear definition of coastal boundaries and coastal development, enhanced regulatory and monitoring capacities for coastal resources protection, and sustainable long-term strategies on land reclamation and marine area protection. At a time when climate is rapidly changing and extreme weather events are frequently occurring, the critical roles that marine and coastal environments play in mitigating and adapting to climate change need to be sufficiently documented and properly recognized. It is therefore essential for Maldives to develop and establish a comprehensive digital database of marine and coastal ecosystem features and services that can be regularly monitored.

The Multihazard Risk Atlas of Maldives was developed through the project “Establishing a National Geospatial Database for Mainstreaming Climate Change Adaptation into Development Activities and Policies in Maldives” under the Asian Development Bank’s regional knowledge and support (capacity development) technical assistance Action on Climate Change in South Asia (2013–2018). This five-volume atlas aims to promote the sustainable development of coastal and marine ecosystems and their various components, by enhancing the awareness of stakeholders on and enjoining them to address climate and disaster risks (including hazards, exposures, and vulnerabilities) to which ecosystems are exposed. The atlas presents spatial information and maps necessary for assessing future development investments in terms of their risks to climate and geophysical hazards.

The target audience of the Multihazard Risk Atlas of Maldives are the concerned stakeholders with current or planned development activities in the country, including public and private sectors, nongovernment organizations, research and academic community, development partner agencies, other financial institutions, and the general public. The atlas will also be a useful reference for other developing countries with similar geographical and environmental conditions, particularly small island developing states. It is envisioned that the atlas will significantly contribute to rendering important sector development investments more resilient to hazard-specific risk scenarios in the short, medium, and long terms.

H.E. Dr. Hussain Rasheed Hassan
Minister
Ministry of Environment, Malé

Shixin Chen
Vice-President for Operations 1
Asian Development Bank, Manila
Acknowledgments

Government Ministries, Departments, and Agencies in Maldives
   Civil Aviation Authority
   Land and Survey Authority
   Marine Research Institute
   Meteorological Service
   Ministry of Economic Development
   Ministry of Education
   Ministry of Environment
   Ministry of Fisheries, Marine Resources and Agriculture
   Ministry of Health
   Ministry of National Planning and Infrastructure
   Ministry of Tourism
   National Bureau of Statistics
   National Disaster Management Center

International Institutions
   Manila Observatory
   Marine Spatial Ecology Lab, University of Queensland, Australia
   SANDER + PARTNER
   United Nations Development Programme

International Institutions in Maldives
   International Union for Conservation of Nature, Maldives
   United Nations Development Programme, Maldives

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   Hussain Naeem, Coastal Ecosystems and Biodiversity Specialist
   Mahmood Riyaz, Climate Change Risk Assessment Specialist
## Abbreviations

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<td>BODC</td>
<td>British Oceanographic Data Centre</td>
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<td>CAA</td>
<td>Maldives Civil Aviation Authority</td>
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<td>GEBCO</td>
<td>General Bathymetric Chart of the Oceans</td>
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<td>ha</td>
<td>hectare</td>
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<td>IHO</td>
<td>International Hydrographic Organization</td>
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<td>Intergovernmental Oceanographic Commission</td>
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<td>IUCN</td>
<td>International Union for Conservation of Nature, Maldives</td>
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<tr>
<td>kW</td>
<td>kilowatt</td>
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<td>ME</td>
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<td>Maldives Land and Survey Authority</td>
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<td>United Nations Development Programme</td>
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<td>UTM</td>
<td>Universal Transverse Mercator</td>
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<td>WGS</td>
<td>World Geodetic System</td>
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This volume examines Maldivians by focusing on the spatial characteristics of the demographics and economic activities in the country. It concentrates on the people at risk to climate and geologic hazards. This population runs the country—and its economy and politics—and cultivates a unique blend of culture.

Specifically, this volume looks at the distribution of the population across the islands; the allocation of educational and health facilities, tourist spots, transportation and other infrastructure; and the facilities and locations of economic activities, particularly sand mining. All these elements have varying exposure and vulnerability to climate and disaster risks.
Humans of Maldives

Life in Maldives. Livelihood is dependent on oceans and seas in the country composed of some 1,200 islands. Majority of Maldivians are Sunni Muslim although there is a cultural mix with South Indian, Sinhalese, and Arab influences (clockwise from top left, photos by Ibrahim Asad, TripAdvisor, Mark Fischer, and ADB).
Population fundamentally measures exposure to hazards. The number of people exposed to certain hazards are based on population density.

Maldives has the lowest population density among countries in Asia and the Pacific. More than 400,000 Maldivians are scattered across the roughly 200 inhabited islands in 21 atolls (National Bureau of Statistics 2014). Roughly 38% of the population resides in Malé City, the largest city in Maldives. The rest are distributed across the atolls.

Table III.1: Atoll Population in Maldives

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<td>21,957</td>
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</tr>
<tr>
<td>Haa Dhaalu Atoll</td>
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</tr>
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<td>Raa Atoll</td>
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<td>4.14</td>
</tr>
<tr>
<td>Haa Alifu Atoll</td>
<td>14,666</td>
<td>3.65</td>
</tr>
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<td>Baa Atoll</td>
<td>13,507</td>
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<tr>
<td>Laamu Atoll</td>
<td>13,498</td>
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<td>13,256</td>
<td>3.30</td>
</tr>
<tr>
<td>Gaafu Dhaalu Atoll</td>
<td>13,104</td>
<td>3.26</td>
</tr>
<tr>
<td>Shaviyani Atoll</td>
<td>13,095</td>
<td>3.26</td>
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<tr>
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</tr>
<tr>
<td>Gaafu Alifu Atoll</td>
<td>10,862</td>
<td>2.70</td>
</tr>
<tr>
<td>Lhaviyani Atoll</td>
<td>10,659</td>
<td>2.65</td>
</tr>
<tr>
<td>Thaa Atoll</td>
<td>9,893</td>
<td>2.46</td>
</tr>
<tr>
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<td>Meemu Atoll</td>
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<tr>
<td>Faafu Atoll</td>
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</tr>
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<td>Vaavu Atoll</td>
<td>2,043</td>
<td>0.51</td>
</tr>
</tbody>
</table>

Note: Total may not add up due to rounding.

*People of Maldives.* People enjoy spending time in the beaches of Maldives, which are famous for their natural beauty, clear, turquoise waters, and fine white sand (photo by Adam Azim).
Map III.1: Maldives, Population

Legend
- Administrative Area
- Administrative Atoll

Population (2014)
- < 2,043
- 2,043–5,000
- 5,000–10,000
- 10,000–15,000
- 15,000–20,000
- 20,000–25,000
- 25,000–30,000
- 30,000–155,000

Data Sources:
Other data from Maldives agencies: ME (administrative areas and atolls); and NBS (population).
Map III.2: Maldives, Population Density

Legend
- Administrative Area
- Administrative Atoll

Population Density (2014, per km²)
- 187–1,820
- 1,820–3,826
- 3,826–7,033
- 7,033–25,198
- 25,198–79,660

Data Sources:
Other data from Maldives agencies: ME (administrative areas and atolls); and NBS (population).
Map III.3: Addu City, Population

Legend
- Administrative Area
- City
- International Airport
- Port
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (cities); and NBS (population).

WGS 1984 UTM Zone 43N
Map III.4: Alifu Alifu Atoll, Population

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.5: Alifu Dhaalu Atoll, Population

Legend
- Administrative Area
- International Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
BODC, IHO, and IOC, 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).

WGS 1984 UTM Zone 43N
Map III.6: Baa Atoll, Population

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
Other data from Maldives agencies: CAA (airports), ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.7: Dhaalu Atoll, Population

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).

WGS 1984 UTM Zone 43N
Map III.8: Faafu Atoll, Population

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.9: Gaafu Alifu Atoll, Population

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.10: Gaafu Dhaalu Atoll, Population

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.11: Gnnaviyani Atoll, Population

Legend
- Administrative Area
- City
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (cities); and NBS (population).

WGS 1984 UTM Zone 43N
Map III.12: Haa Alifu Atoll, Population

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.13: Haa Dhaalu Atoll, Population

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and NBS (population).

Legend
- Administrative Area
- Domestic Airport
- International Airport
- Port
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

WGS 1984 UTM Zone 43N
Map III.14: Laamu Atoll, Population

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1-200
- 201-400
- 401-600
- 601-800
- 801-1,000
- 1,001-1,200
- 1,201-1,400
- 1,401-1,600

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).

WGS 1984 UTM Zone 43N
Map III.15: Lhaviyani Atoll, Population

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.16: Meemu Atoll, Population

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 0–250
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

WGS 1984 UTM Zone 43N
Map III.17: Noonu Atoll, Population

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
- Other data from Maldives agencies: ME (administrative areas), island shorelines, reef boundaries, and water bodies; and NBS (population).
Map III.18: North Malé Atoll, Population

Legend
- Administrative Area
- City
- International Airport
- Port
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
Other data from Maldives agencies: CAA (airports), ME (administrative areas, island shorelines, reef boundaries, and water bodies), MED (ports), MLSA (cities), and NBS (population).
Map III.19: Raa Atoll, Population

Legend

- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)

1–200
201–400
401–600
601–800
801–1,000
1,001–1,200
1,201–1,400
1,401–1,600

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.20: Shaviyani Atoll, Population

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600
Map III.21: South Malé Atoll, Population

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.22: Thaa Atoll, Population

Data Sources: BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Map III.23: Vaavu Atoll, Population

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Population Census Block (2014)
- 1–200
- 201–400
- 401–600
- 601–800
- 801–1,000
- 1,001–1,200
- 1,201–1,400
- 1,401–1,600

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and NBS (population).
Maldives has a high literacy rate. About 88,000 students are enrolled in the country’s 376 government, private, and community schools, most of which are in Kaafu Atoll. Less than 2% of the country’s population are illiterate and less than 1% of the youth aged 15–24 cannot read and write (United Nations Educational, Scientific and Cultural Organization’s Institute for Statistics 2014).

Schools with the highest student capacities are located in Malé, which is also in Kaafu Atoll and the city with the largest population in Maldives. Most of the schools in Malé are situated in low-lying grounds where they are vulnerable to various hazards related to inundation.

Religion and literacy. All Maldivians practice Islam as a religion as required by law. Almost all people in Maldives are literate (right photo by Mark Fischer, left photo by Adam Jones).
Table III.2: Number of Schools and Student Capacity per Atoll, Maldives

<table>
<thead>
<tr>
<th>Atoll</th>
<th>Number of Schools</th>
<th>Student Capacity</th>
</tr>
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<tbody>
<tr>
<td>Alifu Alifu</td>
<td>13</td>
<td>1,681</td>
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<td>Alifu Dhaalu</td>
<td>18</td>
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<tr>
<td>Baa</td>
<td>22</td>
<td>2,614</td>
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<tr>
<td>Dhaalu</td>
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<td>1,697</td>
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<td>Faafu</td>
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<td>1,421</td>
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<td>Gaafu Alifu</td>
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<td>Gaafu Dhaalu</td>
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<td>Gnaviyani</td>
<td>8</td>
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<td>2,092</td>
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<td>Meemu</td>
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<td>1,217</td>
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<td>Noonu</td>
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<td>2,967</td>
</tr>
<tr>
<td>Raa</td>
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<td>4,704</td>
</tr>
<tr>
<td>Seenu</td>
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<td>5,611</td>
</tr>
<tr>
<td>Shaviyani</td>
<td>19</td>
<td>3,680</td>
</tr>
<tr>
<td>Thaa</td>
<td>19</td>
<td>2,547</td>
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<tr>
<td>Vaavu</td>
<td>5</td>
<td>347</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>376</strong></td>
<td><strong>87,788</strong></td>
</tr>
</tbody>
</table>

Map III.24: Addu City, Education Centers

Legend
- Administrative Area
- City
- International Airport
- Port
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center

Student Capacity
- < 100
- 101-300
- 301-500
- 501-1,000
- > 1,001

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (cities); and MOE (education centers).

Addu City: Education Centers

Kilometers

WGS 1984 UTM Zone 43N
Map III.25: Alifu Alifu Atoll, Education Centers

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center
- Student Capacity
  - < 100
  - 101–300
  - 301–500
  - 501–1,000
  - > 1,001

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.26: Alifu Dhaalu Atoll, Education Centers

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

Legend
- Administrative Area
- International Airport
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

WGS 1984 UTM Zone 43N
Map III.27: Baa Atoll, Education Centers

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.28: Dhaalu Atoll, Education Centers

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.29: Faafu Atoll, Education Centers

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.30: Gaafu Alifu Atoll, Education Centers

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

Data Sources:
BODC, IHO, and IOC, 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

WGS 1984 UTM Zone 43N

Kilometers
0 4 8 12 16

1°7'30"N
0°27'0"N
0°40'30"N
0°54'0"N
73°3'0"E
73°13'30"E
73°24'0"E
73°34'30"E

Gaafu Alifu: Education Centers
Map III.31: Gaafu Dhaalu Atoll, Education Centers

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center

Education Center
- Student Capacity
  - < 100
  - 101–300
  - 301–500
  - 501–1,000
  - > 1,001
Map III.32: Gnaviyani Atoll, Education Centers

Legend
- Administrative Area
- City
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center

Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

Data Sources:
Other data from Maldives agencies: CAA (airports); ME
(administrative areas, island shorelines, reef boundaries, and
water bodies); MLSA (cities); and MOE (education centers).
Map III.33: Haa Alifu Atoll, Education Centers

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center

Education Center
- Student Capacity
  - < 100
  - 101–300
  - 301–500
  - 501–1,000
  - > 1,001

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies), and MOE (education centers).
Map III.34: Haa Dhaalu Atoll, Education Centers

Legend
- Administrative Area
- Domestic Airport
- International Airport
- Port
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center
- Student Capacity
  - < 100
  - 101–300
  - 301–500
  - 501–1,000
  - > 1,001

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MOE (education centers).

WGS 1984 UTM Zone 43N
Map III.35: Laamu Atoll, Education Centers

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

WGS 1984 UTM Zone 43N
Map III.36: Lhaviyani Atoll, Education Centers

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

WGS 1984 UTM Zone 43N
Map III.37: Meemu Atoll, Education Centers

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
- Student Capacity
  - < 100
  - 101–300
  - 301–500
  - 501–1,000
  - > 1,001
Map III.38: Noonu Atoll, Education Centers

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies), and MOE (education centers).

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001
Map III.39: North Malé Atoll, Education Centers

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (cities); and MOE (education centers).
Map III.40: Raa Atoll, Education Centers

Legend
- Administrative Area
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- 1,001

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.41: Shaviyani Atoll, Education Centers

Legend
- Administrative Area
Island Shoreline
Reef Boundary
Water Body

Education Center
Student Capacity
- < 100
- 101–300
- 301–500
- 501–1,000
- > 1,001

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).

WGS 1984 UTM Zone 43N
Map III.42: South Malé Atoll, Education Centers

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.43: Thaa Atoll, Education Centers

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Map III.44: Vaavu Atoll, Education Centers

Legend
- Administrative Area
- Island Shoreline
- Reef Boundary
- Water Body
- Education Center
- Student Capacity
  - < 100
  - 101-300
  - 301-500
  - 501-1,000
  - > 1,001

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOE (education centers).
Changing climate—particularly extreme weather conditions—and geologic hazards can affect the health of people, especially persons with disabilities, the elderly, children, and pregnant women. These can cause injuries and even death. Warmer temperature and wetter monsoons, as seen in climate projections for Maldives (Multihazard Risk Atlas of Maldives: Climate and Geophysical Hazards—Volume II), could increase the incidences of vector-borne diseases like dengue (Ahmed and Suphachalasai 2014) and water-borne diseases (Intergovernmental Panel on Climate Change 2001). Inundation, as a result of elevated sea levels or rainfall-induced flooding, could generate an environment favorable to breeding of mosquitoes and other disease vectors (Ahmed and Suphachalasai 2014).

This volume maps out health facilities as one indicator of vulnerability to climate and disaster risks. Based on 2016 data from the Ministry of Health, Maldives has a total of 184 hospitals classified into health centers, private hospitals, government hospitals, atoll hospitals, and regional hospitals. These hospitals are distributed mostly among the highly populated atolls of Raa, Kaafu, and Haa Alifu.

Table III.3: Types of Hospitals in Maldives

<table>
<thead>
<tr>
<th>Hospital Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health center</td>
<td>161</td>
</tr>
<tr>
<td>Atoll hospital</td>
<td>13</td>
</tr>
<tr>
<td>Regional hospital</td>
<td>6</td>
</tr>
<tr>
<td>Government hospital</td>
<td>2</td>
</tr>
<tr>
<td>Private hospital</td>
<td>2</td>
</tr>
</tbody>
</table>


Table III.4: Number of Hospitals per Atoll, Maldives

<table>
<thead>
<tr>
<th>ATOLL</th>
<th>Number of Hospitals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alifu Dhaalu Atoll</td>
<td>1</td>
</tr>
<tr>
<td>Alifu Alifu Atoll</td>
<td>8</td>
</tr>
<tr>
<td>Alifu Dhaalu Atoll</td>
<td>9</td>
</tr>
<tr>
<td>Baa Atoll</td>
<td>13</td>
</tr>
<tr>
<td>Dhaalu Atoll</td>
<td>7</td>
</tr>
<tr>
<td>Faafu Atoll</td>
<td>5</td>
</tr>
<tr>
<td>Gaafu Alifu Atoll</td>
<td>8</td>
</tr>
<tr>
<td>Gaafu Dhaalu Atoll</td>
<td>9</td>
</tr>
<tr>
<td>Gnaviyani Atoll</td>
<td>1</td>
</tr>
<tr>
<td>Haa Alifu Atoll</td>
<td>14</td>
</tr>
<tr>
<td>Haa Dhaalu Atoll</td>
<td>13</td>
</tr>
<tr>
<td>Kaafu Atoll</td>
<td>14</td>
</tr>
<tr>
<td>Laamu Atoll</td>
<td>11</td>
</tr>
<tr>
<td>Lhaviyani Atoll</td>
<td>4</td>
</tr>
<tr>
<td>Meemu Atoll</td>
<td>8</td>
</tr>
<tr>
<td>Noonu Atoll</td>
<td>12</td>
</tr>
<tr>
<td>Raa Atoll</td>
<td>15</td>
</tr>
<tr>
<td>Seenu Atoll</td>
<td>4</td>
</tr>
<tr>
<td>Shaviyani Atoll</td>
<td>14</td>
</tr>
<tr>
<td>Thaa Atoll</td>
<td>13</td>
</tr>
<tr>
<td>Vaavu Atoll</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>184</strong></td>
</tr>
</tbody>
</table>

Map III.45: Maldives, Healthcare Facilities

Legend
- Administrative Area
- Administrative Atoll
- Atoll Capital Island
- City
- Domestic Airport
- International Airport
- Port

Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports);
ME (administrative areas and atolls, island shorelines,
reef boundaries, and water bodies); MED (ports); MLSA (atoll
capital islands and cities); and MOH (healthcare facilities).
Map III.46: Addu City, Healthcare Facilities

Legend
- Administrative Area
- City
- International Airport
- Port
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (cities); and MOH (healthcare facilities).
Map III.47: Alifu Alifu Atoll, Healthcare Facilities

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies; MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.48: Alifu Dhaalu Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- International Airport

Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).

WGS 1984 UTM Zone 43N
Map III.49: Baa Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport

Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports);
  ME (administrative areas, island shorelines, reef boundaries,
  and water bodies); MLSA (atoll capital islands); and
  MOH (healthcare facilities).
Map III.50: Dhaalu Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- International Airport

Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital

Island Shoreline
Reef Boundary
Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports);
ME (administrative areas, island shorelines, reef boundaries,
and water bodies); MLSA (atoll capital islands); and
MOH (healthcare facilities).
Map III.51: Faafu Atoll, Healthcare Facilities

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.52: Gaafu Alifu Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.53: Gaafu Dhaalu Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports);
  ME (administrative areas, island shorelines, reef boundaries,
  and water bodies); MLSA (atoll capital islands); and
  MOH (healthcare facilities).
Map III.54: Gnaiyani Atoll, Healthcare Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports);
ME (administrative areas, island shorelines, reef boundaries,
and water bodies); MLSA (cities); and MOH (healthcare facilities).

WGS 1984 UTM Zone 43N
Map III.55: Haa Alifu Atoll, Healthcare Facilities

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).

Legend
- Administrative Area
- Atoll Capital Island
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.56: Haa Dhaalu Atoll, Healthcare Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports);
ME (administrative areas, island shorelines, reef boundaries,
and water bodies); MED (ports); MLSA (atoll capital islands);
and MOH (healthcare facilities).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- International Airport
- Port
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N

Kilometers
0 4.75 9.5 19

Directions
North
Map III.57: Laamu Atoll, Healthcare Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.58: Lhaviyani Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies);
MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.59: Meemu Atoll, Healthcare Facilities

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (batymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.60: North Malé Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- City
- Port
- International Airport

Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (atoll capital islands and cities); and MOH (healthcare facilities).
Map III.61: Raa Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports);
ME (administrative areas, island shorelines, reef boundaries,
and water bodies); MLSA (atoll capital islands); and
MOH (healthcare facilities).

WGS 1984 UTM Zone 43N
Map III.62: Shaviyani Atoll, Healthcare Facilities

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, water bodies, and reef boundaries); MLSA (atoll capital islands); and MOH (healthcare facilities).

Legend
- Administrative Area
- Atoll Capital Island
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.63: South Male Atoll, Healthcare Facilities

Legend
- Administrative Area
- Healthcare Facility
  - Atoll Hospital
  - Government Hospital
  - Health Center
  - Private Hospital
  - Regional Hospital
  - Island Shoreline
  - Reef Boundary
  - Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MOH (healthcare facilities).

WGS 1984 UTM Zone 43N
Map III.64: Thaa Atoll, Healthcare Facilities

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOH (healthcare facilities).
Map III.65: Vaavu Atoll, Healthcare Facilities

Legend
- Administrative Area
- Atoll Capital Island

Healthcare Facility
- Atoll Hospital
- Government Hospital
- Health Center
- Private Hospital
- Regional Hospital
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLA (atoll capital islands); and MOH (healthcare facilities).
Life in Maldives revolves around the sea, which provides Maldivians with plenty of resources for livelihood including fisheries and tourism.

Rich aquatic resources made fisheries the main source of livelihood in Maldives, until tourism took over. Up to now, fishing contributes to national productivity with tuna, grouper, and snapper among the popular species of fish caught and sold in the market as food.

The natural beauty of its beaches has enticed tourists to visit Maldives for over 4 decades. Although the sea and tropical climate provide for the success of the tourism sector, they also pose concerns for changes in the country’s sea level and future climate.

Fisheries and tourism are susceptible to the changing climate. Future warmer temperatures can affect fish production as higher sea surface temperature leads to coral bleaching, and tourists wanting to see the rich aquatic life in Maldives may no longer be as satisfied (Hosterman and Smith 2014). A wetter climate can also affect the influx of tourists.

In the future, a wetter climate could be less favorable for tourism activities (Multihazard Risk Atlas of Maldives: Climate and Geophysical Hazards—Volume II, p. 32). This may be observed especially during the southwest monsoon in June, July, and August in northern Maldives (Multihazard Risk Atlas of Maldives: Climate and Geophysical Hazards—Volume II, p. 47). The beaches are also threatened by coastal erosion (Multihazard Risk Atlas of Maldives: Biodiversity—Volume IV, p. 69). Additionally, low-lying islands are prone to inundation.
An atoll as seen from the sky. A portion of a Maldivian island is captured on an aerial photograph (photo by Sue Todd).
Naturally beautiful beaches and the presence of island resorts make tourism the main economic sector in Maldives. Tourists can choose to visit one of the 120 islands with operating resorts, ranging from small resorts with only 14 beds to larger ones with more than 900 beds. Most resorts are located in and around Kaafu Atoll (43 resorts), Alifu Dhaalu Atoll (17 resorts), and Baa Atoll (12 resorts) due to the proximity to Malé City and international airports.

Baa, Lhaviyani, Haa Alifu, and Shaviyani atolls will experience an increase in average rainfall rate, based on climate projection results (Multihazard Risk Atlas of Maldives: Climate and Geophysical Hazards—Volume II, p. 32). The resorts in these atolls may experience higher rainfall rate in the future.

### Table III.5: Number of Resorts per Atoll, Maldives

<table>
<thead>
<tr>
<th>Atoll</th>
<th>Number of Resorts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaafu</td>
<td>43</td>
</tr>
<tr>
<td>Alifu Dhaalu</td>
<td>17</td>
</tr>
<tr>
<td>Baa</td>
<td>12</td>
</tr>
<tr>
<td>Alifu Alifu</td>
<td>11</td>
</tr>
<tr>
<td>Lhaviyani</td>
<td>7</td>
</tr>
<tr>
<td>Dhaalu</td>
<td>5</td>
</tr>
<tr>
<td>Noonu</td>
<td>5</td>
</tr>
<tr>
<td>Gaafu Alifu</td>
<td>4</td>
</tr>
<tr>
<td>Gaafu Dhaalu</td>
<td>3</td>
</tr>
<tr>
<td>Raa</td>
<td>3</td>
</tr>
<tr>
<td>Addu City</td>
<td>2</td>
</tr>
<tr>
<td>Meemu</td>
<td>2</td>
</tr>
<tr>
<td>Vaavu</td>
<td>2</td>
</tr>
<tr>
<td>Faafu</td>
<td>1</td>
</tr>
<tr>
<td>Haa Alifu</td>
<td>1</td>
</tr>
<tr>
<td>Laamu</td>
<td>1</td>
</tr>
<tr>
<td>Thaa</td>
<td>1</td>
</tr>
</tbody>
</table>

Table III.6: Resorts in Maldives

<table>
<thead>
<tr>
<th>Atoll and Island</th>
<th>Resort</th>
<th>Area (ha)</th>
<th>Number of Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Addu City</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herethera</td>
<td>Canareef Resort Maldives</td>
<td>81.40</td>
<td>542</td>
</tr>
<tr>
<td>Vilin’gili</td>
<td>Shangri La’s Vilingili Resort &amp; Spa, Maldives</td>
<td>54.44</td>
<td>284</td>
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<tr>
<td><strong>Alifu Atoll</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bathalaa</td>
<td>Bathala Island Resort</td>
<td>3.11</td>
<td>90</td>
</tr>
<tr>
<td>Ellaidhoo</td>
<td>Ellaidhoo Maldives by Cinnamon</td>
<td>5.90</td>
<td>224</td>
</tr>
<tr>
<td>Fesdhoo</td>
<td>W Retreat and Spa-Maldives</td>
<td>4.83</td>
<td>164</td>
</tr>
<tr>
<td>Gangehi</td>
<td>Gangehi Island Resort</td>
<td>2.15</td>
<td>72</td>
</tr>
<tr>
<td>Halaveli</td>
<td>Constance Halaveli Resort</td>
<td>4.75</td>
<td>172</td>
</tr>
<tr>
<td>Kan’dhohlhudhoo</td>
<td>Kandholhu Island Maldives</td>
<td>4.85</td>
<td>60</td>
</tr>
<tr>
<td>Kudafolhudhoo</td>
<td>Nika Island Resort and Spa</td>
<td>5.06</td>
<td>104</td>
</tr>
<tr>
<td>Kuramathi</td>
<td>Kuramathi Maldives</td>
<td>30.97</td>
<td>790</td>
</tr>
<tr>
<td>Maafushifaru</td>
<td>Maafushushi Tourist Resort</td>
<td>3.16</td>
<td>150</td>
</tr>
<tr>
<td>Velidhoo</td>
<td>Velidhoo Island Resort</td>
<td>9.22</td>
<td>200</td>
</tr>
<tr>
<td>Veligan’du</td>
<td>Veligandu Island Resort</td>
<td>5.29</td>
<td>182</td>
</tr>
<tr>
<td><strong>Alifu Dhaalu Atoll</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angaagau</td>
<td>Angaga Island Resort and Spa</td>
<td>4.39</td>
<td>180</td>
</tr>
<tr>
<td>Athurugau</td>
<td>Diamonds Athuruga Beach &amp; Water Villas</td>
<td>3.12</td>
<td>146</td>
</tr>
<tr>
<td>Dhihdhoofinolhu</td>
<td>Lux South Ari Atoll, Maldives</td>
<td>15.99</td>
<td>394</td>
</tr>
<tr>
<td>Dhifushin</td>
<td>Holiday Island Resort and Spa</td>
<td>13.14</td>
<td>284</td>
</tr>
<tr>
<td>Huvahendhoo</td>
<td>Lily Beach Resort</td>
<td>6.62</td>
<td>250</td>
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<td>Kudarah</td>
<td>Kudarah Island Resort</td>
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<td>Maafushifaru</td>
<td>Twin Island Resort</td>
<td>3.01</td>
<td>98</td>
</tr>
<tr>
<td>Mahchafushi</td>
<td>Centara Grand Island Resort &amp; Spa Maldives</td>
<td>4.24</td>
<td>224</td>
</tr>
<tr>
<td>Mirihi</td>
<td>Minihi Island Resort</td>
<td>3.47</td>
<td>76</td>
</tr>
<tr>
<td>Moofushi</td>
<td>Constance Moofushi Resort</td>
<td>3.72</td>
<td>220</td>
</tr>
<tr>
<td>Nalaguraidhoo</td>
<td>Sun Island Resort and Spa</td>
<td>54.12</td>
<td>924</td>
</tr>
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<td>Rangaleefinolhu</td>
<td>Conrad Maldives Rangali Island</td>
<td>6.49</td>
<td>304</td>
</tr>
<tr>
<td>Theluveligaa</td>
<td>Drift Thelu Veliga Retreat</td>
<td>1.11</td>
<td>60</td>
</tr>
<tr>
<td>Thun’dufushi</td>
<td>Diamonds Thudufushi Beach &amp; Water Villas</td>
<td>3.96</td>
<td>144</td>
</tr>
<tr>
<td>Vakarufalhi</td>
<td>Vakarufalhi Island Resort</td>
<td>5.23</td>
<td>150</td>
</tr>
<tr>
<td>Vilamendhoo</td>
<td>Vilamendhoo Island Resort</td>
<td>12.83</td>
<td>368</td>
</tr>
<tr>
<td>Vilin’gili varu</td>
<td>Ranveli Island Resort</td>
<td>2.98</td>
<td>112</td>
</tr>
<tr>
<td><strong>Baa Atoll</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dhigufaruvinagan’du</td>
<td>Dhigufaru Island Resort</td>
<td>3.14</td>
<td>80</td>
</tr>
<tr>
<td>Dhunikolhu</td>
<td>Coco Palm Dhunikolhu</td>
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*continued on next page*
Table III.6 continued

<table>
<thead>
<tr>
<th>Atoll and Island</th>
<th>Resort</th>
<th>Area (ha)</th>
<th>Number of Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fonimagoodhoo</td>
<td>Reethi Beach Resort</td>
<td>10.38</td>
<td>248</td>
</tr>
<tr>
<td>Horubadhoo</td>
<td>Royal Island Resort and Spa</td>
<td>16.82</td>
<td>304</td>
</tr>
<tr>
<td>Kanufushi</td>
<td>Finolhu Baa Atoll Maldives</td>
<td>11.74</td>
<td>272</td>
</tr>
<tr>
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**Laamu Atoll**

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ha = hectare.

Data Sources: BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas and atolls, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (atoll capital islands and cities); and MOT (resort islands).
Map III.67: Addu City, Resort Islands

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (cities); and MOT (resort islands).
Map III.68: Alifu Alifu Atoll, Resort Islands

Data Sources: BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).

Legend
- Administrative Area
- Atoll Capital Island
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body
Map III.69: Alifu Dhaalu Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- International Airport
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).

WGS 1984 UTM Zone 43N
Map III.70: Baa Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.71: Dhaalu Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.72: Faafu Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).

Tourism

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Map III.73: Gaafu Alifu Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).

Kilometers
Map III.74: Gaafu Dhaalu Atoll, Resort Islands

Legend

- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Multihazard Risk Atlas of Maldives—Economy and Demographics

Map III.75: Haa Alifu Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.76: Laamu Atoll, Resort Islands

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.77: Lhaviyani Atoll, Resort Islands

**Legend**
- Administrative Area
- Atoll Capital Island
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).

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**Map III.77: Lhaviyani Atoll, Resort Islands**

- NAIFARU
- Kuredu Island Resort
- Hinnavaru
- Komandoo Maldives Island Resort
- Hurawathi Island Resort
- Kanuhura
- Atmosphere Kanifushi Maldives
- Palm Beach Resort & Spa Maldives
- Cocoon Maldives
- Ohluvelifushi
Map III.78: Meemu Atoll, Resort Islands

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.79: Noonu Atoll, Resort Islands

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.80: North Malé Atoll, Resort Islands

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); MLSA (atoll capital islands and cities); and MOT (resort islands).
Map III.81: Raa Atoll, Resort Islands

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.82: Shaviyani Atoll, Resort Islands

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.83: South Malé Atoll, Resort Islands

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies), and MOT (resort islands).
Map III.84: Thaa Atoll, Resort Islands

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Map III.85: Vaavu Atoll, Resort Islands

Legend
- Administrative Area
- Atoll Capital Island
- Resort Island
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MOT (resort islands).
Transportation

In Maldives, traveling from one end of the island to the other does not take too long, and there are various modes of transportation. People can choose to travel by air or sea.

There are three ports for traveling and transporting goods: (i) Kulhudhuffushi Regional Port in Haa Dhaalu, (ii) Hithadhoo Regional Port in Addu City, and (iii) Malé Commercial Harbor in Malé City. People can also board planes through the international and domestic airports. One alternative mode of transport is via floatplane, which can be accessed from floating platforms scattered across the islands.

Means of transport. A seaplane docked at a port in Maldives is a usual sight and transport mode (photo by Ibahim Asad).
Table III.7: Airports in Maldives

<table>
<thead>
<tr>
<th>Atoll</th>
<th>Island Name</th>
<th>Aerodrome</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domestic Airports</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baa</td>
<td>Dharavandhoo</td>
<td>Dharavandhoo Airport</td>
</tr>
<tr>
<td>Gnaviyani</td>
<td>Fuvahmulah</td>
<td>Fuvahmulah Airport</td>
</tr>
<tr>
<td>Dhaalu</td>
<td>Kudahuvadhoo</td>
<td>Dhaalu Airport</td>
</tr>
<tr>
<td>Thaa</td>
<td>Thimarafushi</td>
<td>Thimarafushi Airport</td>
</tr>
<tr>
<td>Laamu</td>
<td>Kahdhoo</td>
<td>Kahdhoo Airport</td>
</tr>
<tr>
<td>Gaafu Dhaalu</td>
<td>Kaadehddoo</td>
<td>Kaadehddoo Airport</td>
</tr>
<tr>
<td>Alifu Dhaalu</td>
<td>Maamin'gili</td>
<td>Villa Airport Maamigili</td>
</tr>
<tr>
<td>Gaafu Alifu</td>
<td>Kooddoo</td>
<td>Koodoo Airport</td>
</tr>
<tr>
<td>Raa</td>
<td>Ifuru</td>
<td>Ifuru Airport</td>
</tr>
<tr>
<td>Haa Dhaalu</td>
<td>Kulhuddhuffushi</td>
<td>Kulhuddhuffushi Airport</td>
</tr>
<tr>
<td><strong>International Airports</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noonu</td>
<td>Maafaru</td>
<td>Maafaru International Airport</td>
</tr>
<tr>
<td>Haa Dhaalu</td>
<td>Hanimaadhoo</td>
<td>Hanimaadhoo International Airport</td>
</tr>
<tr>
<td>Kaafu</td>
<td>Hulhulé</td>
<td>Velana International Airport</td>
</tr>
<tr>
<td>Seenu</td>
<td>Gan</td>
<td>Gan International Airport</td>
</tr>
<tr>
<td><strong>Future Airports</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gaafu Dhaalu</td>
<td>Faresmaathodaa</td>
<td></td>
</tr>
<tr>
<td>Gaafu Dhaalu</td>
<td>Maavaarulu</td>
<td></td>
</tr>
<tr>
<td>Haa Alifu</td>
<td>Hoarafushi</td>
<td></td>
</tr>
<tr>
<td>Lhaviyani</td>
<td>Madivaru</td>
<td></td>
</tr>
<tr>
<td>Meemu</td>
<td>Muli</td>
<td></td>
</tr>
<tr>
<td>Shaviyani</td>
<td>Funadhoo</td>
<td></td>
</tr>
</tbody>
</table>

Source: Civil Aviation Authority, 2019.
Map III.86: Maldives, Transportation

Legend
- Administrative Area
- Administrative Atoll
- Atoll Capital Island
- City
- Domestic Airport
- Floatplane Platform
- International Airport
- Port
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas and atolls, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands and cities).
Map III.87: Addu City, Transportation

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (cities).
Transportation

Map III.88: Alifu Alifu Atoll, Transportation

Data Sources:
- Other data from Maldives agencies: CAA (floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.89: Alifu Dhaalu Atoll, Transportation

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- International Airport
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.90: Baa Atoll, Transportation

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.91: Dhaalu Atoll, Transportation

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports and floatplane Platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.92: Faafu Atoll, Transportation

Data Sources:
Other data from Maldives agencies: CAA (floatplane platforms);
ME (administrative areas, island shorelines, reef boundaries,
and water bodies); and MLSA (atoll capital islands).

Legend

- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

The Rania Experience
Vilu Reef Beach & Spa
NILANDHO
Feeal
Bileiydhoo
Dharan’boodhoo
Magoodhoo
Filitheyo
Dharan’boodhoo
Magoodhoo
Filitheyo

Kilometers
WGS 1984 UTM Zone 43N
3°0'0"N
3°6'0"N
3°12'0"N
3°18'0"N

72°48'0"E
72°52'0"E
72°56'0"E
73°0'0"E
Map III.93: Gaafu Alifu Atoll, Transportation

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Koodoo Airport
Kaadedhdhoo Airport
THINADHOO
Kolamaafushi
Jumeirah Dhevanafushi
Naafaddhoo
Gemanafushi
Kolamaafushi
Maamendhoo
Nilandhoo
Dhaandhoo
Kan’duhulhudhoo
Dhevvadhoo
Park Hyatt
Jumeirah Dhevanafushi
Kaasedhdhoo Airport
Map III.94: Gaafu Dhaalu Atoll, Transportation

Data Sources:
Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Transportation
109
Map III.95: Gnaviyani Atoll, Transportation

Legend
- Administrative Area
- City
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (cities).

WGS 1984 UTM Zone 43N
Map III.96: Haa Alifu Atoll, Transportation

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body
Map III.97: Haa Dhaalu Atoll, Transportation

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands).
Map III.98: Laamu Atoll, Transportation

Data Sources:
BODC, IHO, and IOC, 2003, GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.99: Lhaviyani Atoll, Transportation

Legend

- Administrative Area
- Atoll Capital Island
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.100: Meemu Atoll, Transportation

Legend

- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N

Kilometers

N

Transportation

115
Map III.101: Noonu Atoll, Transportation

Data Sources:
- Other data from Maldives agencies: CAA (floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.102: North Malé Atoll, Transportation

Data Sources:
Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands and cities).
Map III.103: Raa Atoll, Transportation

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports and floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.104: Shaviyani Atoll, Transportation

Data Sources:
BODC, IHO, and IOC, 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (floatplane platforms); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.105: South Male Atoll, Transportation

Data Sources:
Other data from Maldives agencies: CAA (floatplane platforms), and ME (administrative areas, island shorelines, reef boundaries, and water bodies).

Legend
- Administrative Area
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.106: Thaa Atoll, Transportation

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.107: Vaavu Atoll, Transportation

Legend
- Administrative Area
- Atoll Capital Island
- Floatplane Platform
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (floatplane platforms);
ME (administrative areas, island shorelines, reef boundaries,
and water bodies); and MLSA (atoll capital islands).
For an archipelagic country like Maldives, harbors are important nodes in the transportation system. People can mobilize through these harbors. However, not all the inhabited islands have harbor facilities.

Boats known locally as dhoni and ferries are other modes of transportation in Maldives. They dock in harbor facilities installed along the coasts of 170 islands, 17 of which are atoll capitals. Out of 199 harbors in the country, Raa and Shaviyani atolls have the most with 15 harbors each.

**Table III.8: Harbors in Maldives**

<table>
<thead>
<tr>
<th>Atoll</th>
<th>Number of Harbors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raa Atoll</td>
<td>15</td>
</tr>
<tr>
<td>Shaviyani Atoll</td>
<td>15</td>
</tr>
<tr>
<td>Laamu Atoll</td>
<td>14</td>
</tr>
<tr>
<td>Haa Dhaalu Atoll</td>
<td>14</td>
</tr>
<tr>
<td>Haa Alifu Atoll</td>
<td>13</td>
</tr>
<tr>
<td>Baa Atoll</td>
<td>13</td>
</tr>
<tr>
<td>Malé City</td>
<td>13</td>
</tr>
<tr>
<td>Thaa Atoll</td>
<td>11</td>
</tr>
<tr>
<td>Gaafu Alifu Atoll</td>
<td>10</td>
</tr>
<tr>
<td>Alifu Dhaalu Atoll</td>
<td>10</td>
</tr>
<tr>
<td>Noonu Atoll</td>
<td>10</td>
</tr>
<tr>
<td>Gaafu Dhaalu Atoll</td>
<td>9</td>
</tr>
<tr>
<td>Alifu Alifu Atoll</td>
<td>8</td>
</tr>
<tr>
<td>Kaafu Atoll</td>
<td>8</td>
</tr>
<tr>
<td>Meemu Atoll</td>
<td>7</td>
</tr>
<tr>
<td>Dhaalu Atoll</td>
<td>6</td>
</tr>
<tr>
<td>Faafu Atoll</td>
<td>6</td>
</tr>
<tr>
<td>Lhaviyani Atoll</td>
<td>6</td>
</tr>
<tr>
<td>Addu City</td>
<td>6</td>
</tr>
<tr>
<td>Vaavu Atoll</td>
<td>4</td>
</tr>
<tr>
<td>Gnnaviyani Atoll</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: Ministry of National Planning and Infrastructure, 2017.
Map III.109: Addu City, Harbor Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies);
MED (ports); MLSA (cities); and MNPI (harbor facilities).

Legend
- Administrative Area
- City
- International Airport
- Port
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

0°34'30"S
0°38'0"S
0°41'30"S
0°45'0"S
73°5'0"E
73°7'30"E
73°10'0"E
73°12'30"E
0 2 41
Kilometers
WGS 1984 UTM Zone 43N
Map III.110: Alifu Alifu Atoll, Harbor Facilities

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.111: Alifu Dhaalu Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies);
MLSA (atoll capital islands); and MNPI (harbor facilities).

Legend
- Administrative Area
- Atoll Capital Island
- International Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.112: Baa Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.113: Dhaalu Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.114: Faafu Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.115: Gaafu Alifu Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies);
MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.116: Gaafu Dhaalu Atoll, Harbor Facilities

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).

Legend:
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.117: Gnaviyani Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (cities); and MNPI (harbor facilities).
Map III.118: Haa Alifu Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.119: Haa Dhaalu Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies);
MED (ports); MLSA (atoll capital islands); and MNPI (harbor facilities).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- International Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.120: Laamu Atoll, Harbor Facilities

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.121: Lhaviyani Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).

Legend
- Administrative Area
- Atoll Capital Island
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.122: Meemu Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.123: Noonu Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).

WGS 1984 UTM Zone 43N
Map III.124: North Malé Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MEI (ports); MLSA (atoll capital islands and cities); and MNPI (harbor facilities).
Map III.125: Raa Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).

WGS 1984 UTM Zone 43N
Map III.126: Shaviyani Atoll, Harbor Facilities

Legend
- Administrative Area
- Atoll Capital Island
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.127: South Malé Atoll, Harbor Facilities

Legend
- Administrative Area
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MNPI (harbor facilities).

WGS 1984 UTM Zone 43N

0 1.75 3.5 7 Kilometers
Map III.128: Thaa Atoll, Harbor Facilities

Legend:
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Island with Harbor Facility
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Map III.129: Vaavu Atoll, Harbor Facilities

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, reef boundaries, and water bodies); MLSA (atoll capital islands); and MNPI (harbor facilities).
Sand is one of the major natural resources in Maldives. The white sand lining shores is attributed to the coralline formation of the islands.

In the country, sand mining is a common practice—mined sand is used for construction purposes as there is no other source of aggregate material. In recent years, coralline sand mining has increased to meet the demand of development (Naseer 1997). However, the high demand threatens beaches and islands. Sand mining activities could damage the integrity of shores and lead to erosion (Emerton, Baig, and Saleem 2009). It also threatens corals and other aquatic organisms (Ministry of Environment and Energy 2016). Additionally, the extraction of sand alters the natural movement of sediments and environmental processes on which organisms rely (Dhuny, Huang, and Aslam 2017).

To protect corals, sand mining is regulated through the Act on Sand Mining of 1978, which requires sand mining permits, and the Act on Coral and Sand Mining of 2000, which regulates sand mining only in designated locations for those who have permits.

There are currently 157 approved sand mining locations in Maldives, the majority of which are in Laamu (15), Baa (13), and Thaa (13) atolls (Table III.9).

Table III.9: Sand Mining in Maldives

<table>
<thead>
<tr>
<th>Atoll</th>
<th>Number of Sand Mining Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laamu</td>
<td>15</td>
</tr>
<tr>
<td>Baa</td>
<td>13</td>
</tr>
<tr>
<td>Thaa</td>
<td>13</td>
</tr>
<tr>
<td>Gaafu Dhaalu</td>
<td>12</td>
</tr>
<tr>
<td>Kaafu</td>
<td>11</td>
</tr>
<tr>
<td>Raa</td>
<td>9</td>
</tr>
<tr>
<td>Haa Alifu</td>
<td>9</td>
</tr>
<tr>
<td>Gaafu Alifu</td>
<td>9</td>
</tr>
<tr>
<td>Alifu Dhaalu</td>
<td>8</td>
</tr>
<tr>
<td>Dhaalu</td>
<td>8</td>
</tr>
<tr>
<td>Meemu</td>
<td>8</td>
</tr>
<tr>
<td>Haa Dhaalu</td>
<td>6</td>
</tr>
<tr>
<td>Alifu Alifu</td>
<td>6</td>
</tr>
<tr>
<td>Seenu</td>
<td>6</td>
</tr>
<tr>
<td>Laviyani</td>
<td>5</td>
</tr>
<tr>
<td>Shaviyani</td>
<td>5</td>
</tr>
<tr>
<td>Noonu</td>
<td>5</td>
</tr>
<tr>
<td>Faffu</td>
<td>5</td>
</tr>
<tr>
<td>Vaavu</td>
<td>4</td>
</tr>
</tbody>
</table>

Sand mining applications

Mineral source. Sand are mined in Maldives for construction purposes (photo by Sue Todd).
Map III.130: Maldives, Approved Sand Mining Locations

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands and cities).

Legend
- Administrative Area
- Administrative Atoll
- Atoll Capital Island
- City
- Domestic Airport
- International Airport
- Port
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Kilometers

WGS 1984 UTM Zone 43N
Map III.131: Addu City, Approved Sand Mining Locations

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (cities).

Legend
- Administrative Area
- City
- International Airport
- Port
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.132: Alifu Alifu Atoll, Approved Sand Mining Locations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.133: Alifu Dhaalu Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- International Airport
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N

Kilometers
Map III.134: Baa Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.135: Dhaalu Atoll, Approved Sand Mining Locations

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.136: Faafu Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N
Map III.137: Gaafu Alifu Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports), IUCN Maldives (approved sand mining locations), ME (administrative areas, island shorelines, reef boundaries, and water bodies), and MLSA (atoll capital islands).

Gaafu Alifu: Approved Sand Mining Locations

Kolamaafushi
Kolamaaafushhee falhu

Dhaandhoo
Dhevvadhoo falhu

Maamendhoo
Maamendhoo falhu

Nilandhoo
Nilandhoo falhu

Gemanafushi
Gemanafushi falhu

Kon'duhulhudhoo
Kon'duhulhudhoo falhu

Madavelee
Maafushi falhu

Hoadedhdhoo
Hoadedhdhoo falhu

Villin'gili
Villin'gili falhu

Falhuverrarahaa

THINADHOO

Dhevvadhoo

Kondey falhu

Dhiyadhoo

Gemanafushi

Kolamaafushi

Dhevvadhoo falhu
Map III.138: Gaafu Dhaalu Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N
Map III.139: Haa Alifu Atoll, Approved Sand Mining Locations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.140: Haa Dhaalu Atoll, Approved Sand Mining Locations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital island).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- International Airport
- Port
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body
Map III.141: Laamu Atoll, Approved Sand Mining Locations

Data Sources:
- Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N

Kilometers
Map III.142: Lhaviyani Atoll, Approved Sand Mining Locations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.143: Meemu Atoll, Approved Sand Mining Locations

Data Sources:
Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Map III.143: Meemu Atoll, Approved Sand Mining Locations

Sand Mining Applications
Map III.144: Noonu Atoll, Approved Sand Mining Locations

Data Sources:
- Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.145: North Malé Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- City
- International Airport
- Port
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands and cities).

North Malé Atoll: Approved Sand Mining Locations

Data Sources:
- Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands and cities).
Map III.146: Raa Atoll, Approved Sand Mining Locations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N
Map III.147: Shaviyani Atoll, Approved Sand Mining Locations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.148: South Malé Atoll, Approved Sand Mining Locations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); and ME (administrative areas, island shorelines, reef boundaries, and water bodies).
Map III.149: Thaa Atoll, Approved Sand Mining Locations

Data Sources:
Other data from Maldives agencies: CAA (airports); IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.150: Vaavu Atoll, Approved Sand Mining Locations

Data Sources:
Other data from Maldives agencies: IUCN Maldives (approved sand mining locations); ME (administrative areas, island shorelines, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Approved Sand Mining Location
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
All the inhabited islands of Maldives have access to continuous electric supply. Two major electric supply companies—Fenaka Corporation Limited and State Electric Company Limited—provide electricity to the islands. The largest electric demand comes from Malé City.

Map III.151: Maldives, Power Stations

Source: Energy Department, Ministry of Environment, 2017.
Map III.152: Addu City, Power Stations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); MED (ports); and MLSA (cities).

Legend
- Administrative Area
- City
- Port
- International Airport

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body
Map III.153: Alifu Alifu Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island
- Power Station
  - Installed Capacity (kW)
    - < 500
    - 500–1,000
    - 1,000–2,000
    - 2,000–5,000
    - 5,000–12,000
    - 12,000–75,000
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Multihazard Risk Atlas of Maldives—Economy and Demographics

Map III.154: Alifu Dhaalu Atoll, Power Stations

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- International Airport

Power Station
- Installed Capacity (kW)
  - < 500
  - 500–1,000
  - 1,000–2,000
  - 2,000–5,000
  - 5,000–12,000
  - 12,000–75,000

Island Shoreline
- Reef Boundary
- Water Body
Map III.155: Baa Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport

Power Station
Installed Capacity (kW)
- < 500
- 500-1,000
- 1,000-2,000
- 2,000-5,000
- 5,000-12,000
- 12,000-75,000

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N
Map III.156: Dhaalu Atoll, Power Stations

Legend

- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Power Station

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

WGS 1984 UTM Zone 43N
Map III.157: Faafu Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.158: Gaafu Alifu Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
- Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.159: Gaafu Dhaalu Atoll, Power Stations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldivian agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.160: Gnativi Atoll, Power Stations

Legend
- Administrative Area
- City
- Domestic Airport

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports);
ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (cities).
Map III.161: Haa Alifu Atoll, Power Stations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Power Station

Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body
Map III.162: Haa Dhaalu Atoll, Power Stations

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- International Airport
- Port
- Power Station
- Installed Capacity (kW)
  - < 500
  - 500–1,000
  - 1,000–2,000
  - 2,000–5,000
  - 5,000–12,000
  - 12,000–75,000
- Island Shoreline
- Reef Boundary
- Water Body
Map III.163: Laamu Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.164: Lhaviyani Atoll, Power Stations

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.165: Meemu Atoll, Power Stations

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Power Station
  - Installed Capacity (kW)
    - < 500
    - 500–1,000
    - 1,000–2,000
    - 2,000–5,000
    - 5,000–12,000
    - 12,000–75,000
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.166: Noonu Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island
- Power Station
- Installed Capacity (kW)
  - < 500
  - 500–1,000
  - 1,000–2,000
  - 2,000–5,000
  - 5,000–12,000
  - 12,000–75,000
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
- Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.167: North Malé Atoll, Power Stations

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); MED (ports); and MLSA (atoll capital islands and cities).
Map III.168: Raa Atoll, Power Stations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport
- Power Station
  - Installed Capacity (kW)
    - < 500
    - 500–1,000
    - 1,000–2,000
    - 2,000–5,000
    - 5,000–12,000
    - 12,000–75,000
- Island Shoreline
- Reef Boundary
- Water Body

WGS 1984 UTM Zone 43N
Map III.169: Shaviyani Atoll, Power Stations

Legend

- Administrative Area
- Atoll Capital Island
- Power Station

Installed Capacity (kW)

- < 500
- 500 - 1,000
- 1,000 - 2,000
- 2,000 - 5,000
- 5,000 - 12,000
- 12,000 - 75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).

Shaviyani Atoll: Power Stations

73°18'0"E
73°9'30"E
73°1'0"E
72°52'30"E
6°30'0"N
6°20'0"N
6°10'0"N
6°0'0"N
0 7.5 153.75 Kilometers
WGS 1984 UTM Zone 43N
Map III.170: South Malé Atoll, Power Stations

Legend
- Administrative Area
- Power Station
  Installed Capacity (kW)
  - < 500
  - 500–1,000
  - 1,000–2,000
  - 2,000–5,000
  - 5,000–12,000
  - 12,000–75,000
- Island Shoreline
- Reef Boundary
- Water Body

Data Sources:
Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies).

WGS 1984 UTM Zone 43N
Map III.171: Thaa Atoll, Power Stations

Legend
- Administrative Area
- Atoll Capital Island
- Domestic Airport

Power Station
Installed Capacity (kW)
- < 500
- 500–1,000
- 1,000–2,000
- 2,000–5,000
- 5,000–12,000
- 12,000–75,000

Island Shoreline
Reef Boundary
Water Body

Data Sources:
Other data from Maldives agencies: CAA (airports); ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
Map III.172: Vaavu Atoll, Power Stations

Data Sources:
BODC, IHO, and IOC. 2003. GEBCO Digital Atlas (bathymetry). Other data from Maldives agencies: ME (administrative areas, island shorelines, power stations, reef boundaries, and water bodies); and MLSA (atoll capital islands).
The Human Development Index is a summary measure developed by the United Nations Development Programme to assess national development based on three basic dimensions of human development: a long and healthy life, access to knowledge, and a decent standard of living (UNDP 2018). In Maldives, ratings are high for Faafu, Dhaalu, and Meemu atolls as well as Malé City.
Map III.173: Maldives, Human Development Index

Legend

- Administrative Area
- Administrative Atoll

Human Development Index (2014)

Low (0.59–0.60)
Medium (0.61–0.64)
High (0.65–0.74)

Data Sources:
Other data from Maldives agencies: ME (administrative areas and atolls); and UNDP (human development indices).
Map Data Sources

Government Ministries, Departments, and Agencies in Maldives
  Civil Aviation Authority
    Airports
    Floatplane platform
  Land and Survey Authority
    Atoll capital islands
    Cities
  Ministry of Economic Development
    Ports
  Ministry of Education
    Education centers
  Ministry of Environment
    Administrative areas
    Administrative atolls
    Island shorelines
    Power stations
    Reef boundaries
    Water bodies
  Ministry of Health
    Healthcare facilities
  Ministry of National Planning and Infrastructure
    Harbor facilities
  Ministry of Tourism
    Resort islands
  National Bureau of Statistics
    Population

International Institutions
  United Nations Development Programme
    Human development index 2014

International Institution in Maldives
  International Union for Conservation of Nature, Maldives
    Approved sand mining locations
References


Maps were prepared by the Country Consultant Team and the Manila Observatory on behalf of the Asian Development Bank.
Multihazard Risk Atlas of Maldives

Economy and Demographics—Volume III

This atlas provides spatial information about Maldives and thematic maps necessary for assessing future development investments in terms of climate risks and geophysical hazards. It is also intended to support the formulation of cobeneficial options for climate change adaptation and disaster risk reduction and management. The five-volume atlas is a major output of the project “Establishing a National Geospatial Database for Mainstreaming Climate Change Adaptation into Development Activities and Policies in Maldives” under the Asian Development Bank’s regional knowledge and support (capacity development) technical assistance Action on Climate Change in South Asia (2013–2018).


About the Asian Development Bank

ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 68 members—49 from the region. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.