

SEA LEVEL RISE



1
00:00:00,020 --> 00:00:02,010
Climate Resilience

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00:00:02,010 --> 00:00:06,760
NASA scientists are working with officials from Rio de Janeiro and New York City,

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00:00:06,760 --> 00:00:10,300
using satellite data, to prepare for the effects of climate change.

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00:00:10,300 --> 00:00:14,800
Climate resilience focuses on anticipating and preparing for issues

5
00:00:14,810 --> 00:00:17,150
like sea level rise and urban heat islands.

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00:00:17,150 --> 00:00:18,770
Sea Level Rise

7
00:00:18,770 --> 00:00:23,960
Melting glaciers and the expansion of water as it warms contribute to rising sea levels.

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00:00:23,960 --> 00:00:29,140
NASA scientists use climate models to predict how and where the seas will rise.

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00:00:29,140 --> 00:00:34,720
In New York, city officials take these projections into account while rebuilding from major storms

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00:00:34,720 --> 00:00:38,460
like Hurricane Sandy, and anticipating future coastal flooding.

11
00:00:38,460 --> 00:00:40,120
Urban Heat Islands

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00:00:40,120 --> 00:00:45,020
Dark surfaces like pavement in cities absorb heat. As green spaces disappear,

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00:00:45,020 --> 00:00:49,680

expanding cities lose the cooling effect of plants evaporating water.

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00:00:49,680 --> 00:00:53,710

As a result, cities are often warmer than their surrounding areas.