

# 2018 Adaptation Synthesis Survey Results

A survey was designed and sent via State Letter and CAEP Memo as part of the 2018 ICAO CAEP Adaptation Synthesis. 88 responses were received, with at least one response from every ICAO Region. Respondents were comprised of fifty-nine (59) States, eighteen (18) airports, six (6) airlines, four (4) Air Navigation Service Providers, and one (1) global organisation.

The survey had questions for each of the nine impact categories analysed in the synthesis and also asked respondents questions on adaptation planning, and the preparedness of the global aviation sector for the effects of climate change (see Figure 2 for a list of the nine impact categories).

## Key Findings

Figure 1 below presents one of the key findings of the survey results. 65 of 88 of respondents (74 percent) said that they are already experiencing some impacts from climate change. None of the respondents indicated that they do not expect to be impacted by climate change.

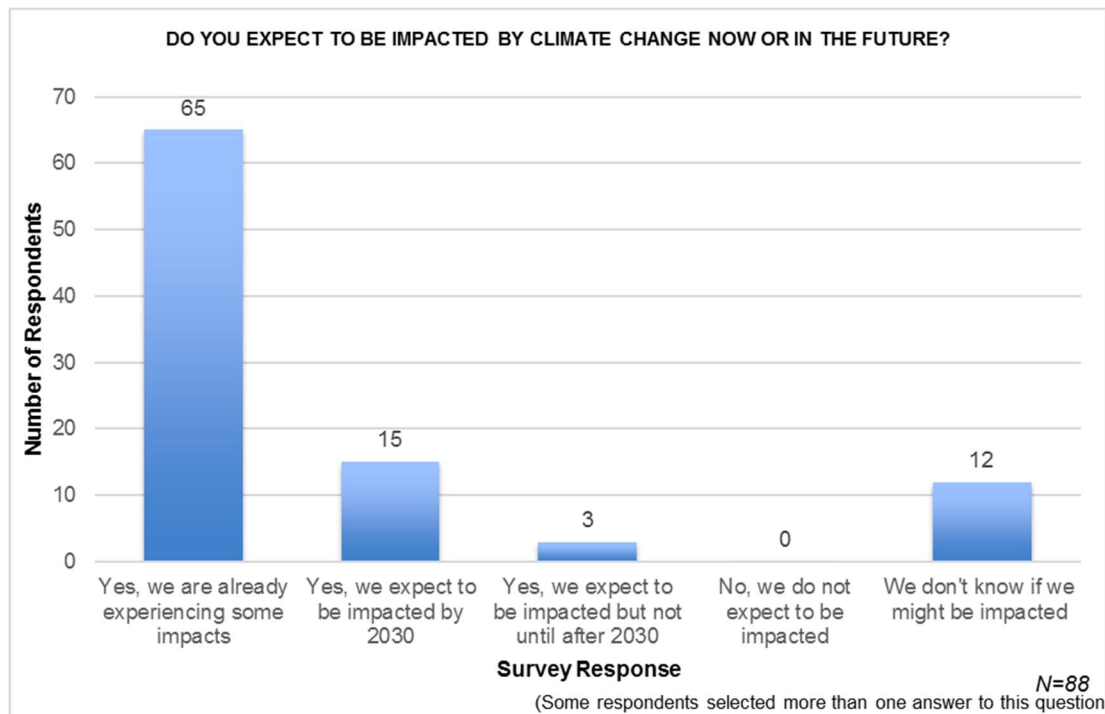


Figure 1: Timescales in which respondents expect to be impacted by climate change

The Survey asked respondents if they are affected today or expect to be affected in the future by nine impact categories. Results are presented in Figure 2. In eight of these categories 50 percent or greater of the respondents said they are affected today or expect to be affected in the future.

Respondents expected the biggest challenges to be from Higher Average and Extreme Temperature, Changing Precipitation, and Increased Intensity of Storms:

- **Higher Average and Extreme Temperatures:** 80 of 88 respondents stated they are affected today or expect to be affected in the future by Higher Average and Extreme Temperatures (91

percent).

- **Changing Precipitation:** 78 of 88 respondents stated they are affected today or expect to be affected in the future by Changing Precipitation (89 percent).
- **Increased Intensity of Storms:** 76 of 88 respondents stated they are affected today or expect to be affected in the future by Increased Intensity of Storms (86 percent).

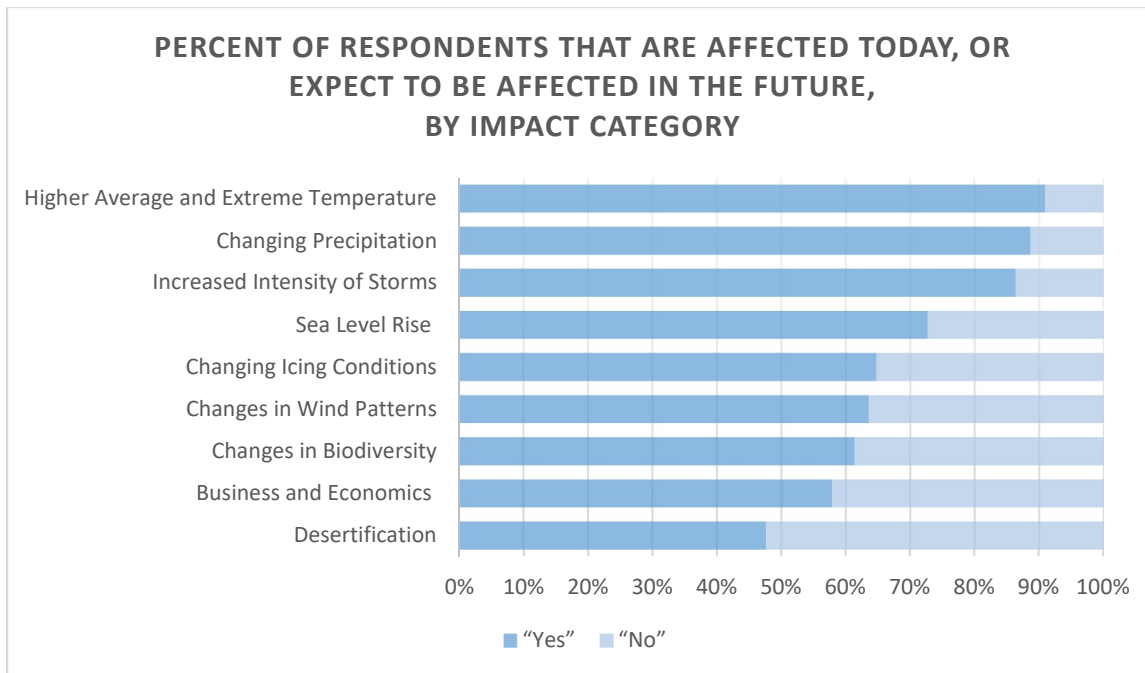


Figure 2: Percent of respondents that are affected by impact category

N=88

**Risk Assessment:** 58 out of 88 of respondents (63 percent) indicated that they have already carried out a risk assessment or intend to do so in the future. Respondents also stated that adaptation risk assessment and planning both at the global and the airport level are some of the more effective things the global aviation sector can do or is doing to prepare for the impacts of climate change.

**Implementing Adaptation and Resilience Measure:** 26 out of 87 respondents (30 percent) stated that they are already implementing adaptation and resilience measures while 13 out of 87 respondents indicated they plan to do so in the next five years (15 percent) and 9 out of 87 indicated they plan to do so in the next 10 years (10 percent)<sup>1</sup>. Despite the implementation – or planned implementation – of adaptation and resilience measures, 74 out of 88 respondents (85 percent) believe that the global aviation sector still has work to do in order to prepare for the impacts of climate change.

<sup>1</sup> Note: One response to this question referred to climate change mitigation measures and was not included in the total.