



Accurate Monitoring of Surface Ozone Virtual Workshop 5-9 October 2020

Implementing a Globally Coordinated Change in Ozone Cross
Section Value for Surface Ozone Monitoring

Report from Task Group 2 – A Timeline for Change

Paul Brewer | Jennifer Carney | Louise Sorensen
Marina Froehlich | Bernhard Niederhauser | Shi Yaolong
Timothy Sharac | Glenn Ross | Jose De Miguel Gomez | Trisha Curran

Overview



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- Task group questions
- Review of survey responses
- Review of survey comments
- Discussion of individual questions and other points raised
- Consensus opinion – taking into account survey responses

Task group questions



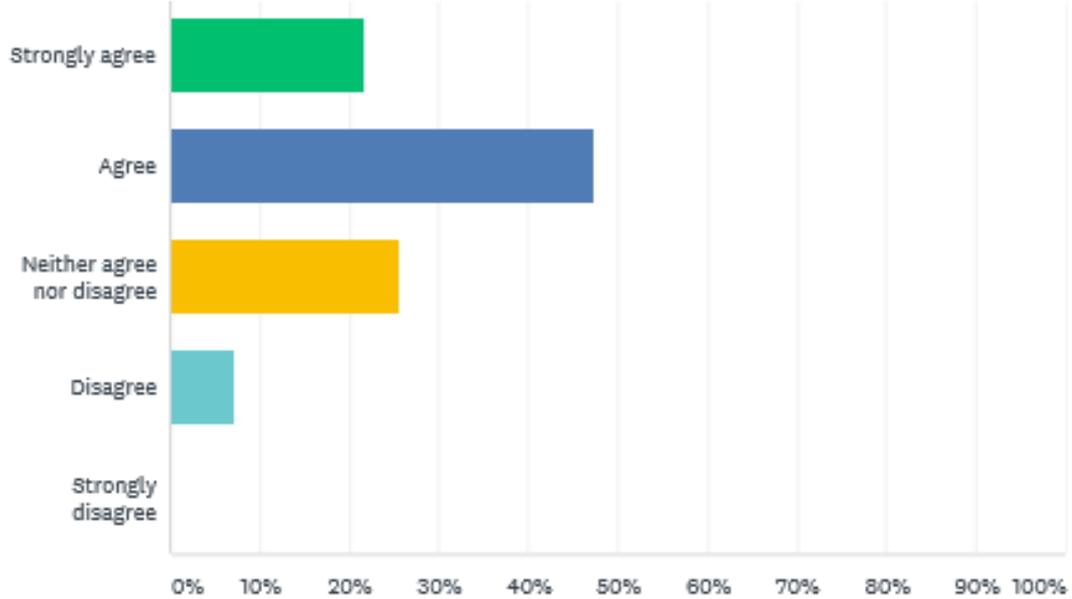
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- How much time is required to prepare for change?
- What is a reasonable implementation date and schedule?
- If it is not possible to implement the new value by the proposed date (e.g. regulation has not changed), what happens?

Review of survey responses

Q8 Should all stakeholders target the same implementation date?

Answered: 55 Skipped: 7

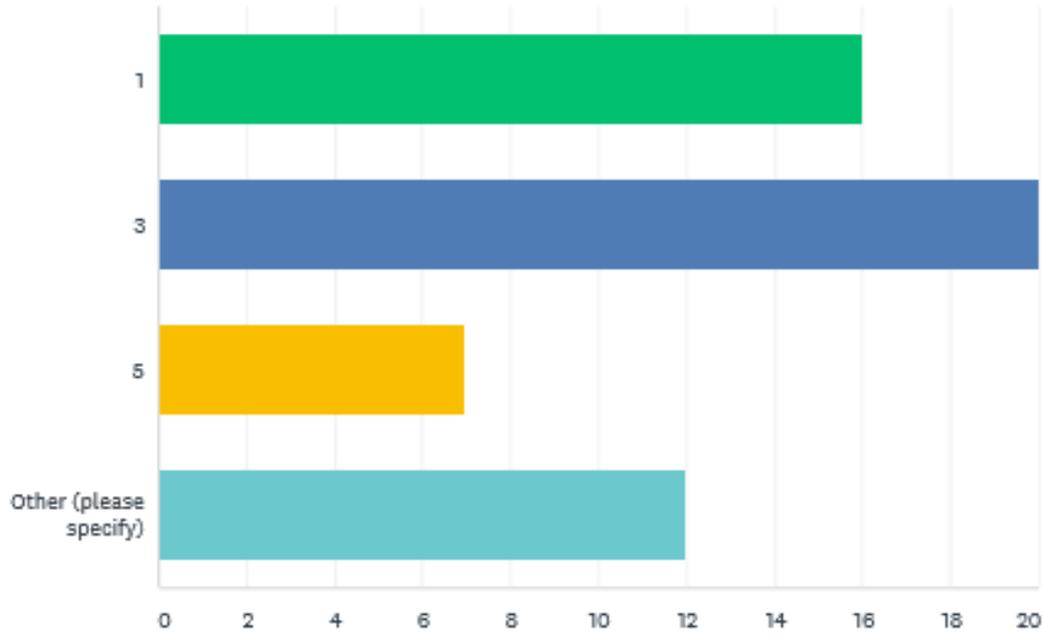


| ANSWER CHOICES | RESPONSES | |
|------------------------------|-----------|----|
| Strongly agree | 21.82% | 12 |
| Agree | 47.27% | 26 |
| Neither agree nor disagree | 25.45% | 14 |
| Disagree | 7.27% | 4 |
| Strongly disagree | 0.00% | 0 |
| Total Respondents: 55 | | |

Review of survey responses

Q9 How many years does your community require to prepare for a change?

Answered: 55 Skipped: 7



| ANSWER CHOICES | RESPONSES | |
|------------------------|-----------|-----------|
| 1 | 29.09% | 16 |
| 3 | 36.36% | 20 |
| 5 | 12.73% | 7 |
| Other (please specify) | 21.82% | 12 |
| TOTAL | | 55 |

Summary

Benefits

- Improved accuracy, coherence and application to measurements at other wavelengths
- Cleaner air

Concerns

- Confusion due to coexistence of different values
- Effect on trends
- Change process control (regulations, standards and manufacturers)
- Impact on regulatory limit compliance
- Lack of understanding

Considerations for the timeline for change

- Dealing with regulations and standards in a coordinated way
- Requirements for manufacturers (type testing for performance)
- Administration permissions
- Correcting historic data and preventing a step change
- Communicating the change

Discussions

How much time is required?

- Technically the change is easy to implement (mathematical correction)
- Communicating, changing standards and regulations, calibrating instruments, changing process control with manufacturers, seeking permission from authorities will require substantial time
- Preference for the start of the calendar year
- Preference for a period of 3-5 years (aligning with survey)
- Important to strike a balance between keeping momentum and updating the community with the scientifically accurate reference and allowing sufficient time for processes to change and concerns to be addressed

Discussions

What is a reasonable implementation date and schedule?

We considered three scenarios:

1 A fixed date (Jan 2024) where all institutes implement the new value

One date will ensure that confusion from the change over is minimised and the timescale for implementation strikes a balance between keeping momentum and allowing time for the change. There were concerns that this time period is not sufficient for everything to be in place (e.g. updating regulations and seeking permission from authorities in China and Korea due to increase in exceedances). Supports Q8 and Q9 of the survey.

2 Early implementation at BIPM, NMIs, DIs (Jan 2023) and a transition period (~ 1 year)

May cause confusion with two values being used during the transition period. May also create additional work in correcting data during this period. The transition period may ease organisations into the change and result in more acceptance. Supports Q9 of the survey.

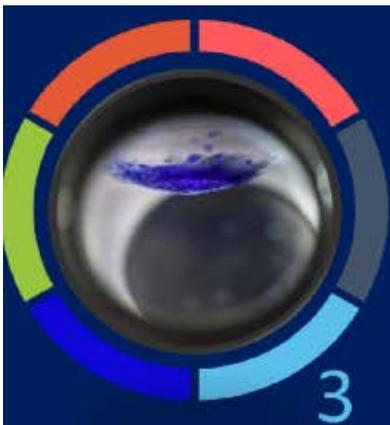
3 A fixed date (Jan 2024) with a decision several months before to extend to Jan 2025

This will deal with the uncertainty surrounding whether changes can be made to regulation etc. on the timescale proposed and offers an extension if required. Drawback is the extension may delay the process and make implementation difficult. Supports Q8 and Q9 of the survey.

Consensus opinion (with survey responses)

Propose 1 January 2024 as the date for implementation

- Change made by the BIPM, NMIs and DIs
- Adopted universally, where possible
- Where this is not possible
 - values will be reported using the Hearn value and the new value (correction applied)
 - the origin of the two values will be clearly communicated
 - a plan and timetable to transfer to the new value will be communicated



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