| Indicator | $\begin{array}{\|l\|} \hline \text { Annual } \\ 2018 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 5 \text { year } \\ 2014-2018 \\ \hline \end{array}$ | $\begin{aligned} & \hline 10 \text { year } \\ & 2009-2018 \\ & \hline \end{aligned}$ | $\begin{aligned} & 10 \text { year } \\ & 2006-2015^{\mathbf{1}} \\ & \hline \end{aligned}$ | Other |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Global Temperature (change from preindustrial, 1850-1900) | $0.98 \pm 0.12^{\circ} \mathrm{C}$ | $1.04 \pm 0.09^{\circ} \mathrm{C}$ | $0.93 \pm 0.07^{\circ} \mathrm{C}$ | $0.87{ }^{\circ} \mathrm{C}$ |  |
| GHG |  |  |  |  |  |
| - CO2 (ppm, data to 2017) | $\begin{array}{\|l\|} \hline(2017) \\ 405.5 \pm 0.1 \\ \text { ppm } \\ \hline \end{array}$ | $\begin{aligned} & (2013-17) \\ & 400.5 \mathrm{ppm} \end{aligned}$ | $\begin{aligned} & (2008-2017) \\ & 394.7 \mathrm{ppm} \end{aligned}$ | $\begin{aligned} & (2006-2015) \\ & 390.3 \mathrm{ppm} \end{aligned}$ |  |
| - CO2 (rate of increase) | $\begin{aligned} & (2016) 2.2 \\ & \mathrm{ppm} / \mathrm{yr} \end{aligned}$ | $\begin{aligned} & (2012-16) 2.5 \\ & \mathrm{ppm} / \mathrm{yr} \end{aligned}$ | $\begin{aligned} & (2007-2016) 2.2 \\ & \mathrm{ppm} / \mathrm{yr} \end{aligned}$ | $\begin{aligned} & (2006-2015) 2.1 \\ & \mathrm{ppm} / \mathrm{yr} \end{aligned}$ |  |
| Cryosphere |  |  |  |  |  |
| - March Arctic Sea ice change \% wrt $1981-2010$ | -7.4\% | -6.7\% | -5.2\% | -3.9\% |  |
| - September Arctic Sea ice change \% | -27.7\% | -26.6\% | -27.5\% | -25.1\% |  |
| - March Antarctic Sea ice change \% | -20.3\% | -4.9\% | -3.8\% | +1.5\% |  |
| - September Antarctic Sea ice change \% | -4.8\% | -2.1\% | -0.6\% | +0.9\% |  |
| Sea Level |  |  |  |  |  |
| - Global average rate/year | $\mathrm{n} / \mathrm{a}^{2}$ | $4.5 \pm 0.3 \mathrm{~mm} / \mathrm{yr}$ | $4.6 \pm 0.15 \mathrm{~mm} / \mathrm{yr}$ | $3.8 \pm 0.1 \mathrm{~mm} / \mathrm{yr}$ | $\begin{aligned} & 3.1 \pm 0.1 \mathrm{~mm} / \mathrm{yr} \\ & (1993-2017) \end{aligned}$ |
| - Total change since 1993 | 78mm | 70mm (2015) | 60mm (2014) | 42mm (2009) |  |
| - SE-Asia rate per year |  |  |  |  | $4.5 \pm 0.4 \mathrm{~mm} / \mathrm{yr}$ (1993-2017) |
| - Caribbean rate per year |  |  |  |  | $\begin{aligned} & 2.9 \pm 0.2 \mathrm{~mm} / \mathrm{yr} \\ & (1993-2017) \end{aligned}$ |
| Heat Content |  |  |  |  |  |
| - 700 meters ( $10^{22}$ J wrt 1981-2010) | 12.8 | 11.1 | 9.1 | 7.4 |  |
| - 2000 meters (1022 J wrt 1981-2010) | 18.2 | 16.5 | 13.2 | 10.2 |  |
| Ocean Acidification |  |  |  |  |  |

[^0]| pH from open ocean stations HOTS and <br> BATS, annual decrease (data up to 2016) |  |  | $1995-2016$ <br> $0.001-0.002$ |
| :--- | :--- | :--- | :--- |
| Extreme Events | List by casualties | List by economic losses | Other |
|  | Kerala Floods, India (August) | Hurricane Florence, USA <br> (September) | Campfire <br> wildfire, USA <br> (November) |
|  | Floods, Japan (July) | Floods, Japan (July) |  |
|  | Floods, Nigeria <br> (September/October) | European Drought (Summer) |  |
|  | Pakistan Heatwave (May) | Kerala Floods, India (August) |  |
|  | Floods DPR Korea (August) | Drought Argentina/Uruguay |  |


[^0]:    ${ }^{1}$ The period 2006-2015 is used here as this period was used in the IPCC SR15
    ${ }^{2}$ A sea-level rate is not provided for 2018 as a single year is too short for the calculation of a reliable trend.

