









Closing the carbon budget		
Targets	Quantify fluxes of carbon-related greenhouse gases to +/- 10% on annual timescales Quantify changes in carbon stocks to +/- 10% on decadal timescales in the ocean and on land, and to +/- 2.5 % in the atmosphere on annual timescales	
Who	Operators of GCOS-related systems, including data centres	
Time frame	Ongoing	

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Time frame	Ongoing	
Performance	Regular assessment of uncertainties in estimated fluxes and	
indicator	inventories	

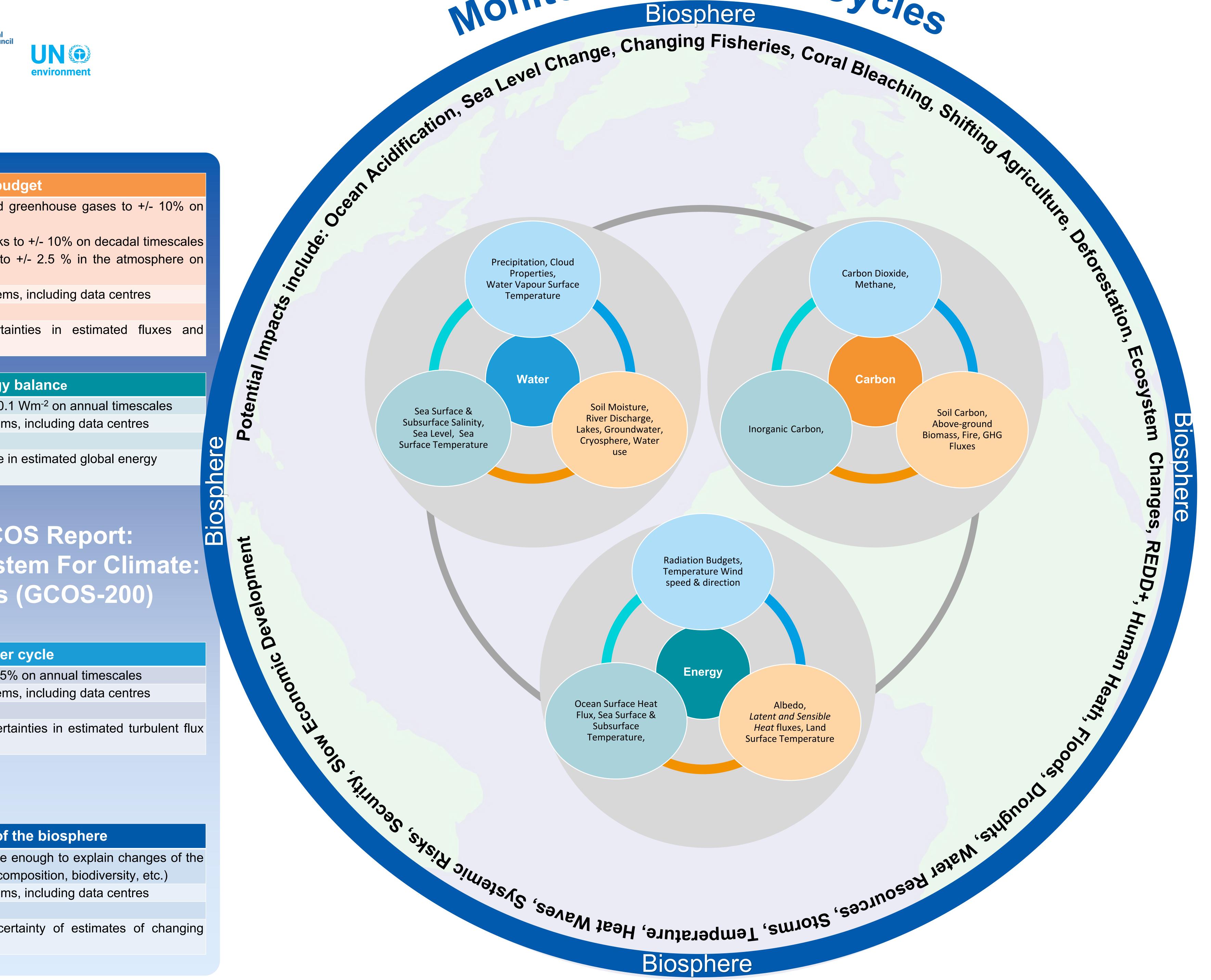
Closing the global energy balance		
Targets	Balance energy budget to within 0.1 Wm ⁻² on annual timescales	
Who	Operators of GCOS-related systems, including data centres	
Time frame	Ongoing	
Performance	Regular assessment of imbalance in estimated global energy	
indicator	budget	

Targets from the GCOS Report: The Global Observing System For Climate: Implementation Needs (GCOS-200)

Closing the global water cycle	
Targets	Close water cycle globally within 5% on annual timescales
Who	Operators of GCOS-related systems, including data centres
Time frame	Ongoing
Performance	Regular assessment of the uncertainties in estimated turbulent flux
indicator	of latent heat

Explain changing conditions of the biosphere	
Targets	Measured ECVs that are accurate enough to explain changes of the
	biosphere (for example, species composition, biodiversity, etc.)
Who	Operators of GCOS-related systems, including data centres
Time frame	Ongoing
Performance	Regular assessment of the uncertainty of estimates of changing
indicator	conditions as listed above

Monitoring Climate Cycles Biosphere



Biosphere



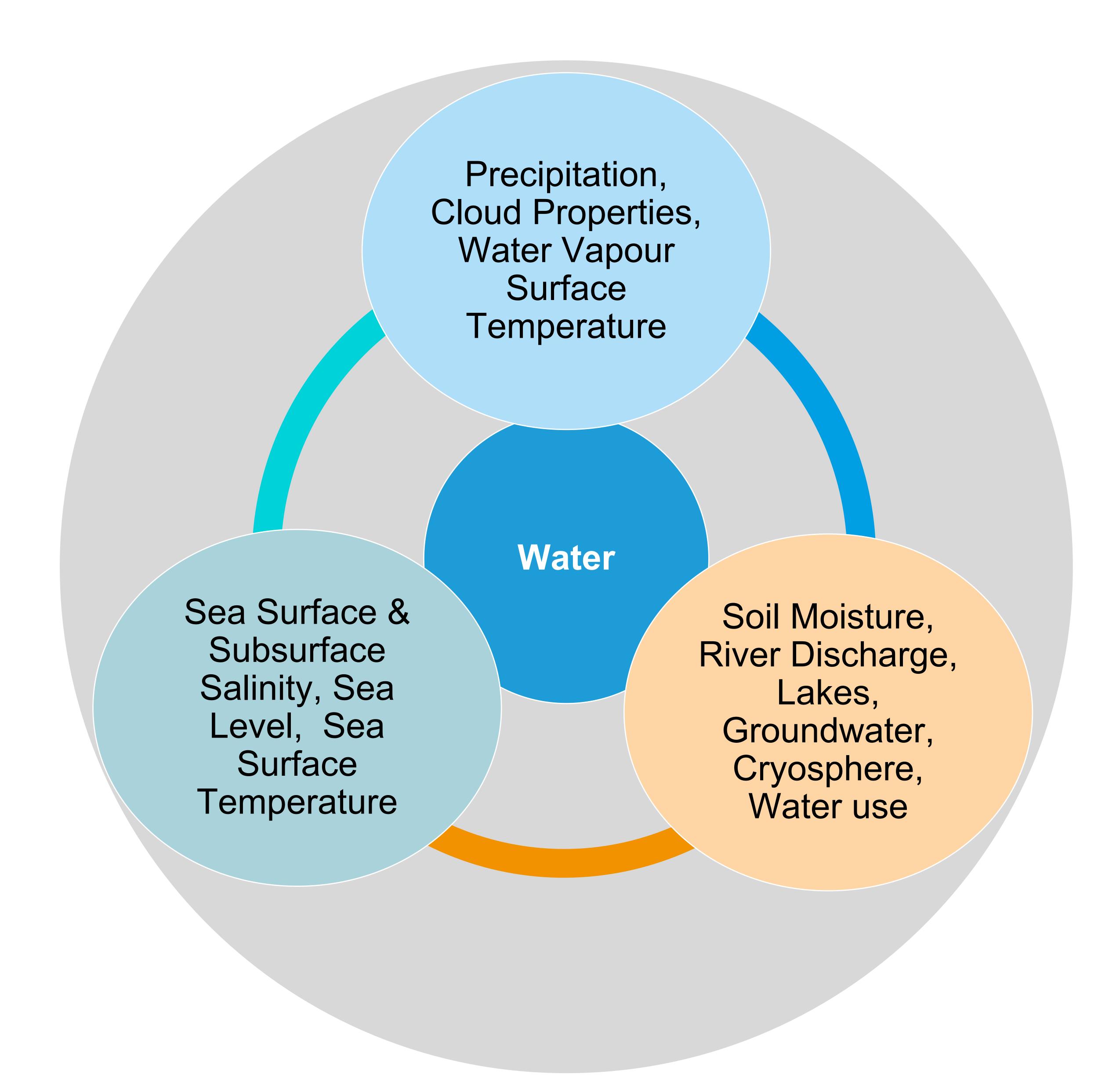








Closing the global water cycle	
Targets	Close water cycle globally
	within 5% on annual
	timescales
Who	Operators of GCOS-
	related systems, including
	data centres
Time frame	Ongoing
Performance	Regular assessment of the
indicator	uncertainties in estimated
	turbulent flux of latent heat



Water: Stephan Dietrich – Afternoon meeting in: Domes Hall

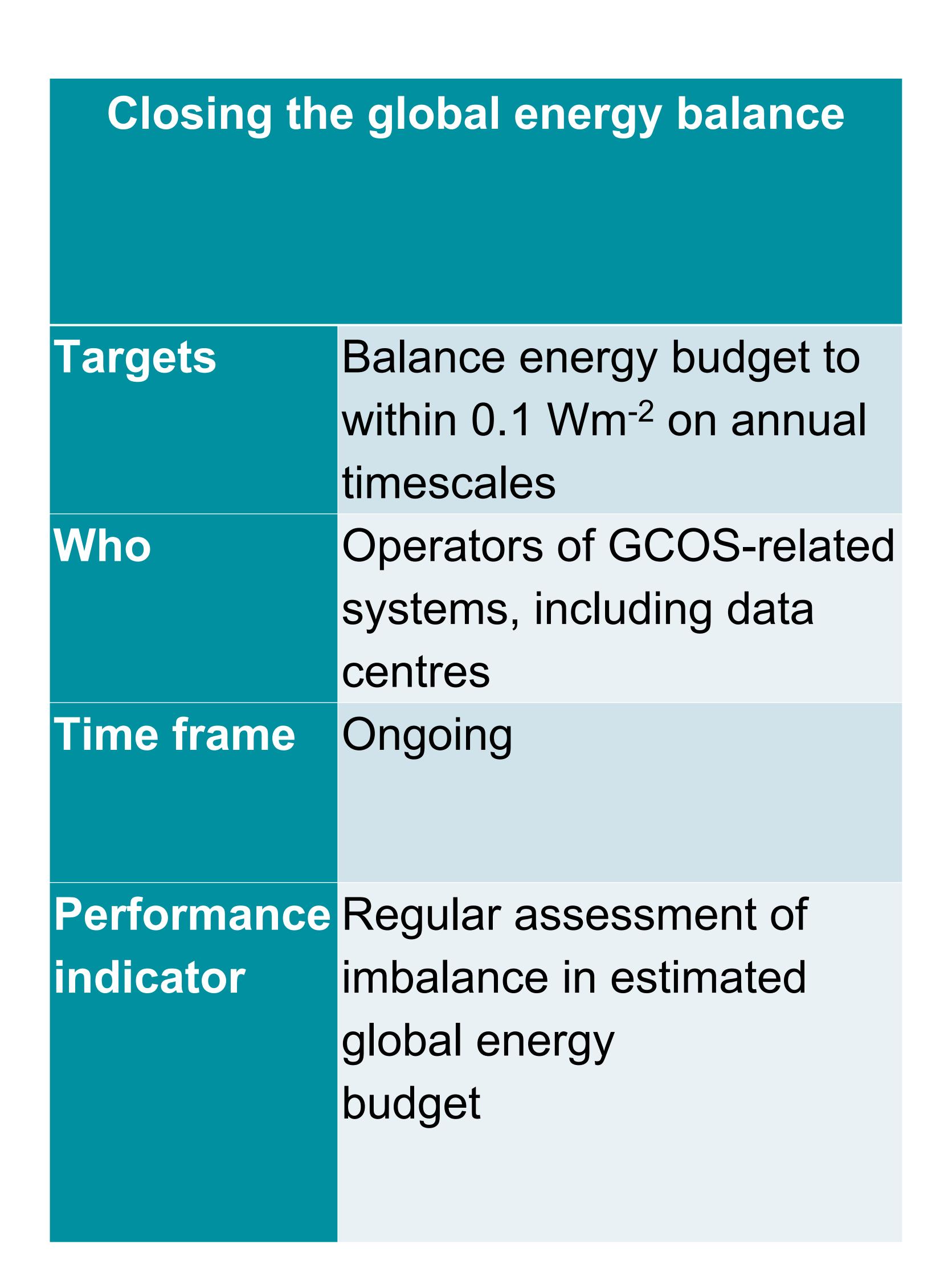


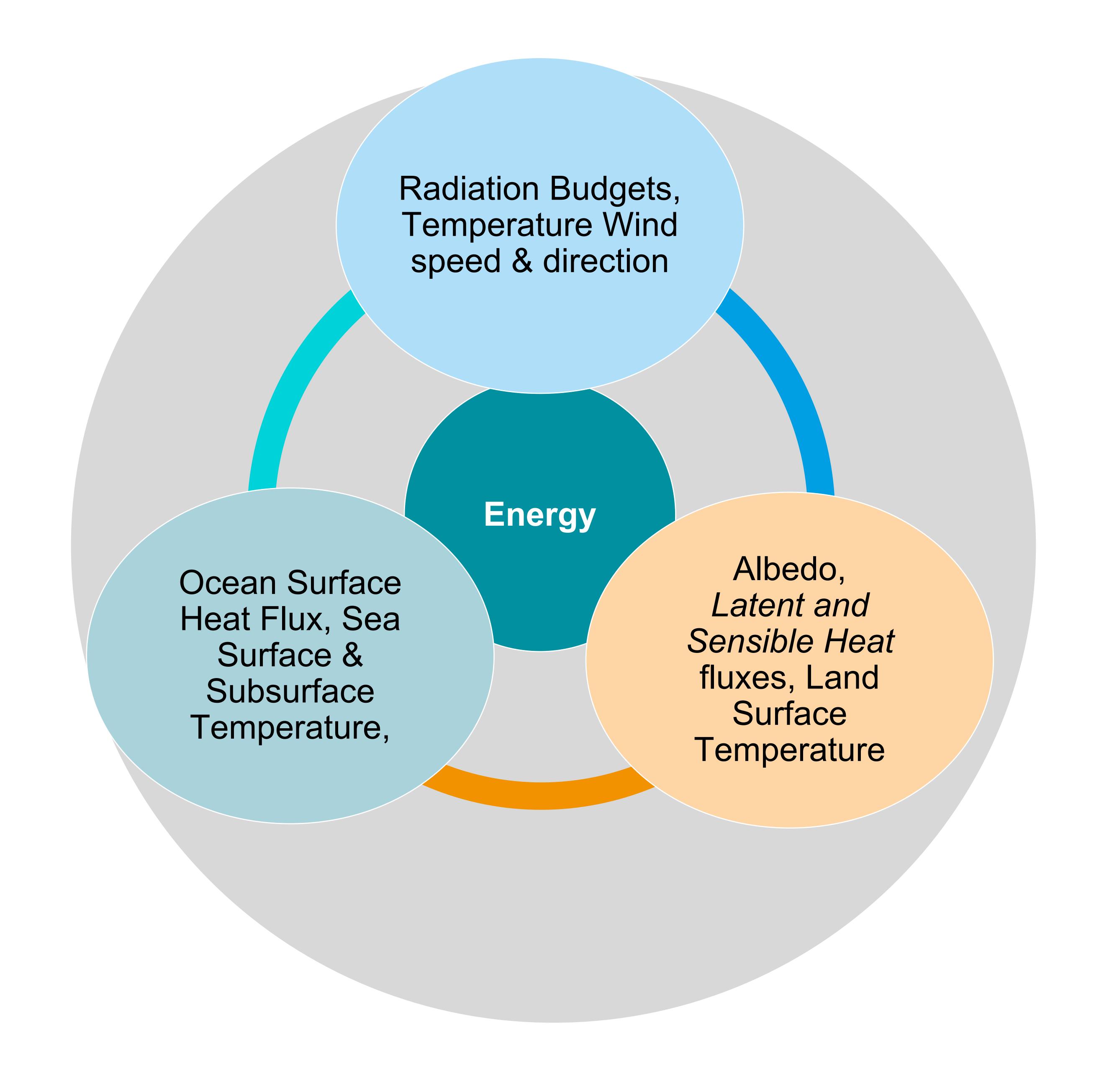












Energy: Karina von Schuckmann- Afternoon meeting in: Jean Bauchet Hall

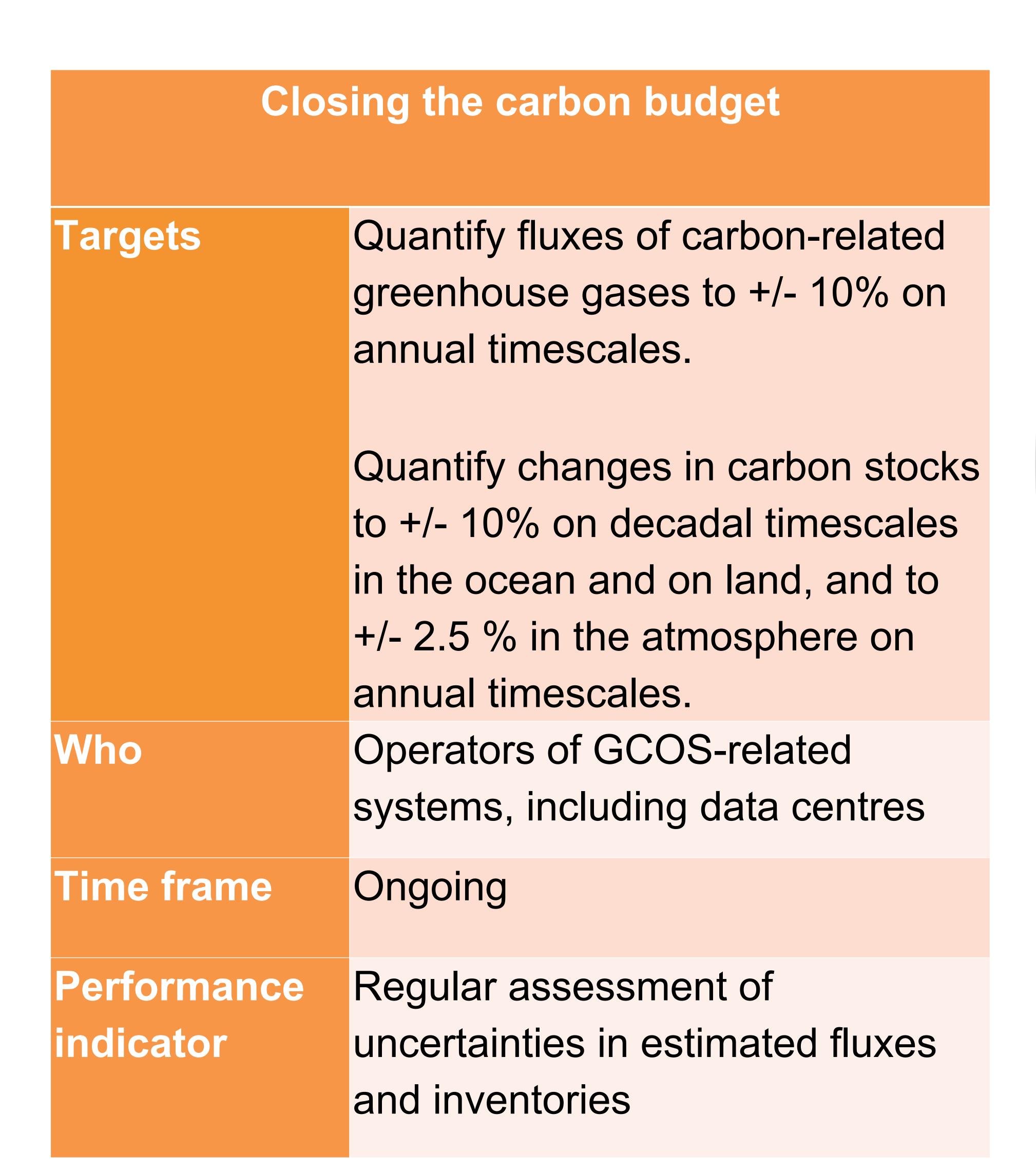


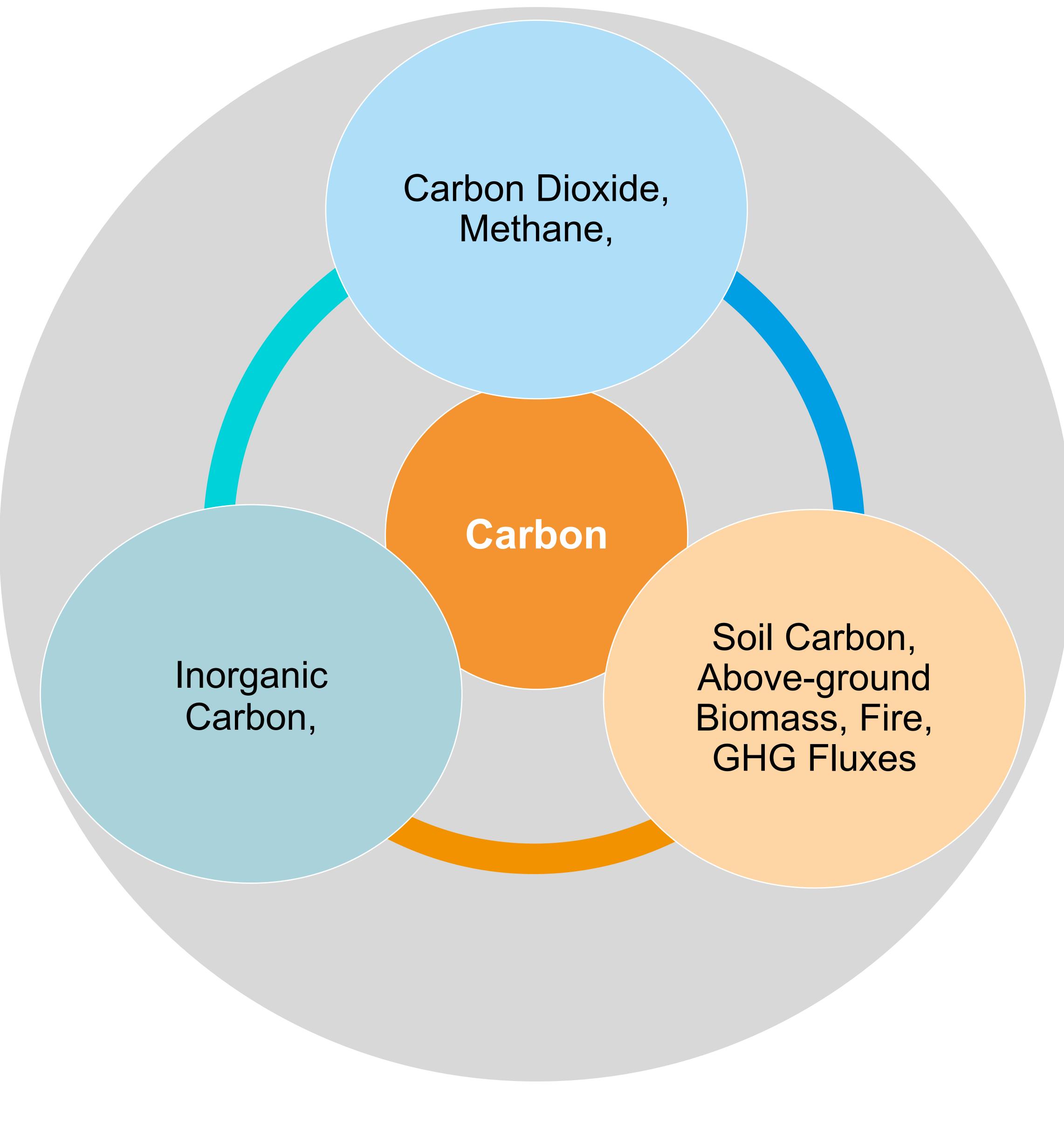












Carbon: Han Dolman – Afternoon meeting in: Warda Hall









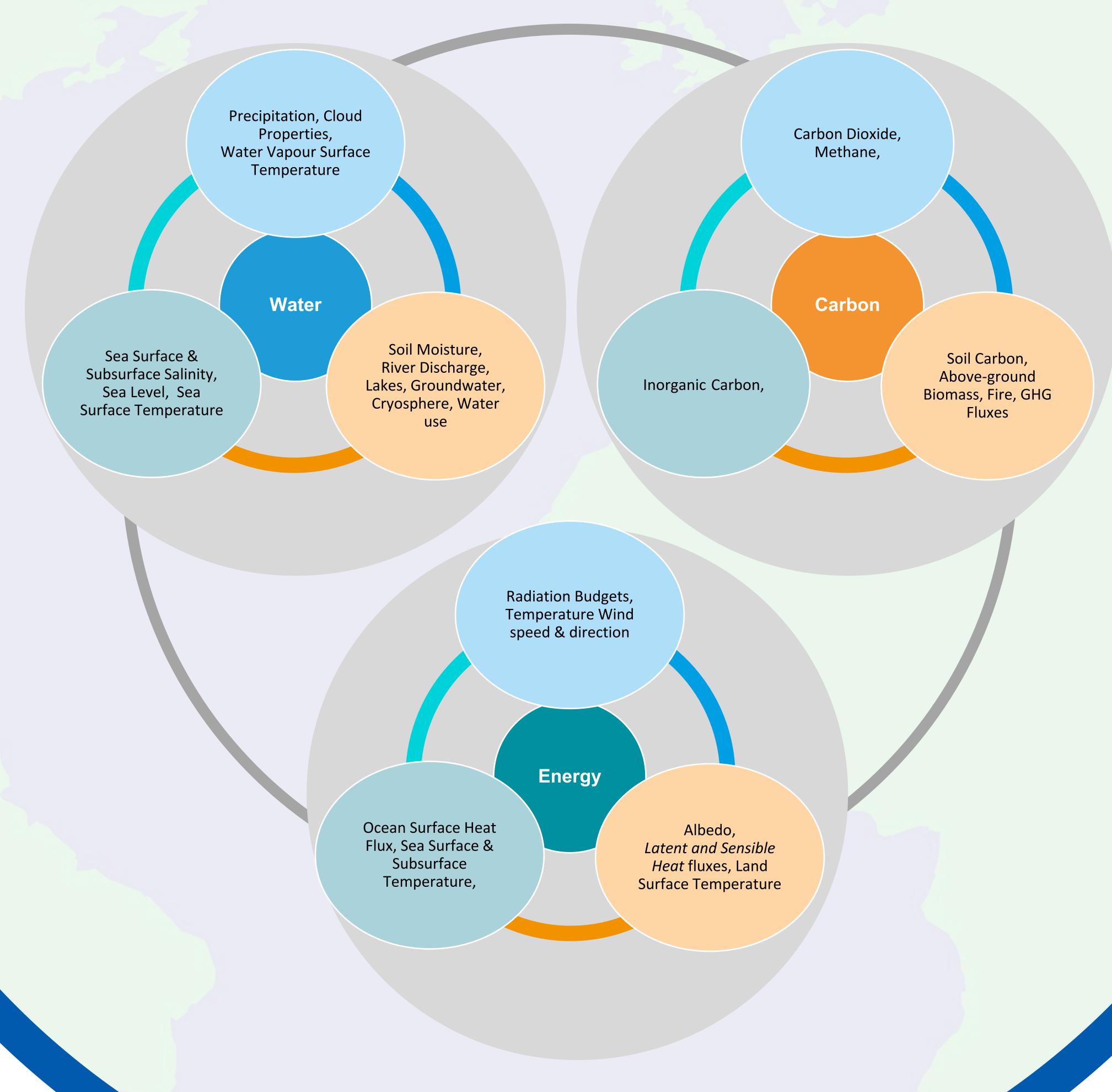


Explain changing	conditions of
the biosphere	

Targets	Measured ECVs
	that are accurate
	enough to explain
	changes of the
	biosphere (for
	example, species
	composition,
	biodiversity, etc.)
Who	Operators of
	GCOS-related
	systems, including
	data centres
Time frame	Ongoing
Performance	Regular
indicator	assessment of the
	uncertainty of
	estimates of
	changing conditions
	as listed above

Biosphere

Biosphere: Nadine Gobron – Afternoon meeting in: Jury Hall















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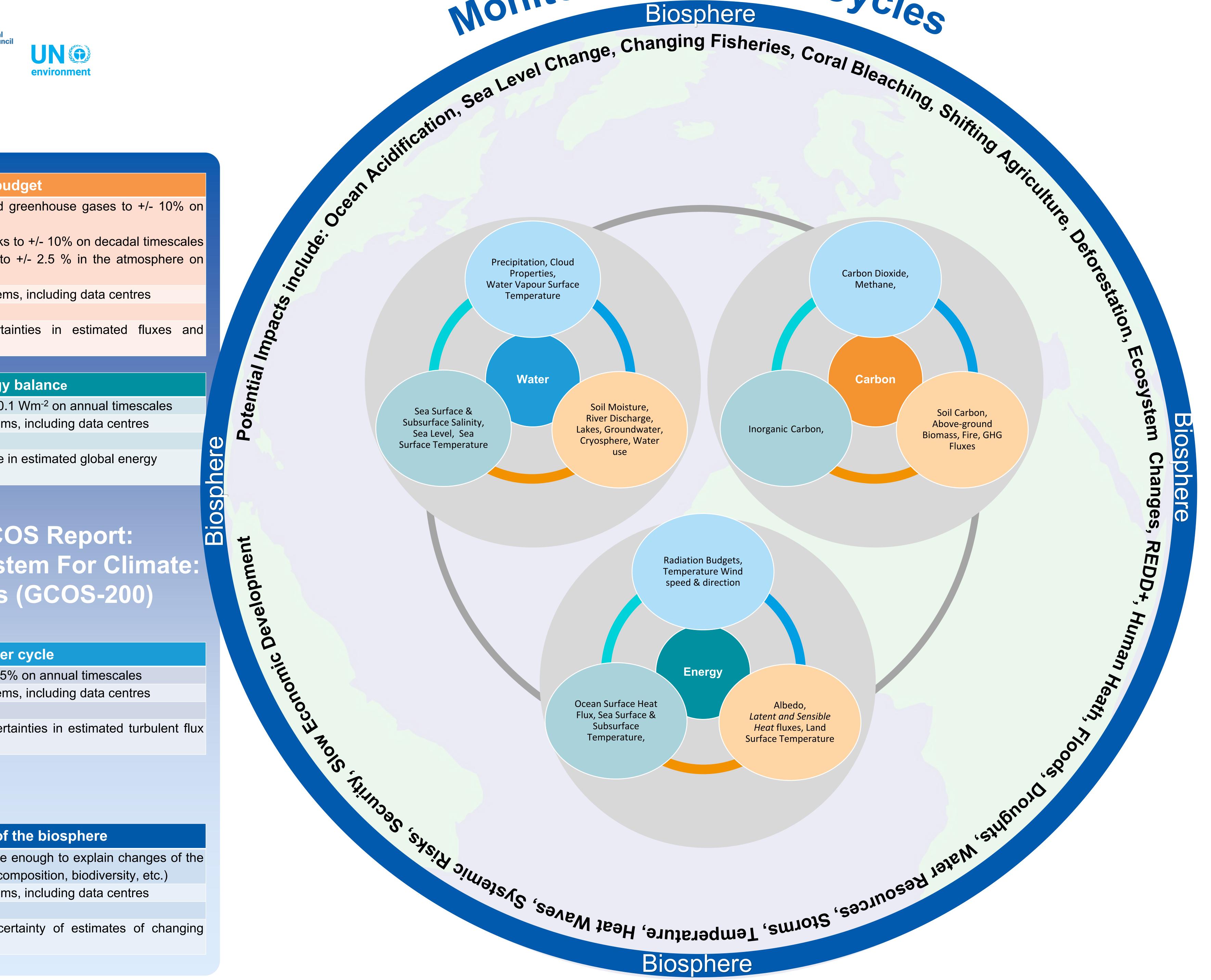
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Monitoring Climate Cycles Biosphere



Biosphere