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Sidgenössische Technösche Hochschule Zürich Swiss Federal Institute af Technology Zurich **Biosphere 2: Biomes I** The (salt water) pond of **Biosphere 2** hosts a fairly complex maritime ecosystem. Visible behind the pond are the marsh lands planted with mangroves. Artificial waves are being generated to keep the mangroves healthy. Above the cliffs to the right, there is the high savannah. October 25, 2012 Start Presentation $\langle \downarrow \downarrow \rangle$ © Prof. Dr. François E. Cellier

Mathematical Modeling of Physical Systems

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Evapor	ation and Condensation III
	e <i>humidity ratio</i> as the effort variable. It i kg_water / kg_air.
	only choice we can make. The units of flow rmined from the fact that $e \cdot f = P$.
	h, we did not use standard SI units. Time is here h, and power is measured in <i>kJ/h</i> .
• Hence the <i>kJ·kg_air/(h</i>	flow variable must be measured in <i>kg_water</i>).
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of heat and hun	Cellier, and F. Mugica (1999), " <u>Simulation</u> nidity budgets of Biosphere 2 without air cological Engineering, 13 , pp. 333-356.
Graph Modelin	Nebot, and J. Greifeneder (2006), " <u>Bond</u> og of Heat and Humidity Budgets of <i>Environmental Modeling & Software</i> , 3-1606.
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