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Sommario/riassunto	Ecophysiological mechanisms underlie plant responses to environmental conditions and the influence these responses have on ecological patterns and processes. In this Special Issue, with a particular interest in the interactions between climate change, environmental disturbance, and functional ecology, experimental observations are described at a range of spatial scales. A modeling framework is used in an effort to relate mechanistic responses to ecosystem functions and services, and link forest ecophysiology and environmental indicators. This Special Issue collects important advances in studying and monitoring plant–environment interactions, covering biogeographic gradients from Mediterranean woodlands to boreal forests and from Alpine mountains to tropical environments.