



## Plant Physiological Ecology

*Hans Lambers, F. Stuart Chapin III, Thijs L. Pons*

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Box 9E. 1 Continued FIGURE 2. The C–S–R triangle model (Grime 1979). The strategies at the three corners are C, competition-winning species; S, stress-tolerating species; R, ruderal species. Particular species can engage in any mixture of these three primary strategies, and the mixture is described by their position within the triangle. comment briefly on some other dimensions that Grime's (1977) triangle (Fig. 2) (see also Sects. 6. 1 are not yet so well understood. and 6. 3 of Chapter 7 on growth and allocation) is a two-dimensional scheme. A C—S axis (Competition-winning species to Stress-tolerating species) reflects adaptation to favorable vs. unfavorable sites for plant growth, and an R—Five traits that are coordinated across species axis (Ruderal species) reflects adaptation to leaf mass per area (LMA), leaf life-span, leaf N concentration, and potential photosynthesis and dark respiration on a mass basis. In the five-trait Trait-Dimensions space, 79% of all variation worldwide lies along a single main axis (Fig. 33 of Chapter 2A on photosynthesis). A recent trend in plant strategy thinking has been synthesis; Wright et al. 2004). Species with low trait-dimensions, that is, spectra of variation with respect to measurable traits. Compared nutrient concentrations, and high potential rates of mass-based photosynthesis. These species with category schemes, such as Raunkiaer's, occur at the “quick-return” end of the leaf economics spectrum. Five traits that are coordinated across species axis (Ruderal species) reflects adaptation to leaf mass per area (LMA), leaf life-span, leaf N concentration, and potential photosynthesis and dark respiration on a mass basis. In the five-trait Trait-Dimensions space, 79% of all variation worldwide lies along a single main axis (Fig. 33 of Chapter 2A on photosynthesis). A recent trend in plant strategy thinking has been synthesis; Wright et al. 2004). Species with low trait-dimensions, that is, spectra of variation with respect to measurable traits. Compared nutrient concentrations, and high potential rates of mass-based photosynthesis. These species with category schemes, such as Raunkiaer's, occur at the “quick-return” end of the leaf economics spectrum.

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