



NANCY B. GRIMM

UNITED STATES

Pioneer in studying how climate and human disturbances affect the structure and processes of arid and urban streams.

She was president of the Ecological Society of America and is an elected member of the US National Academy of Sciences.

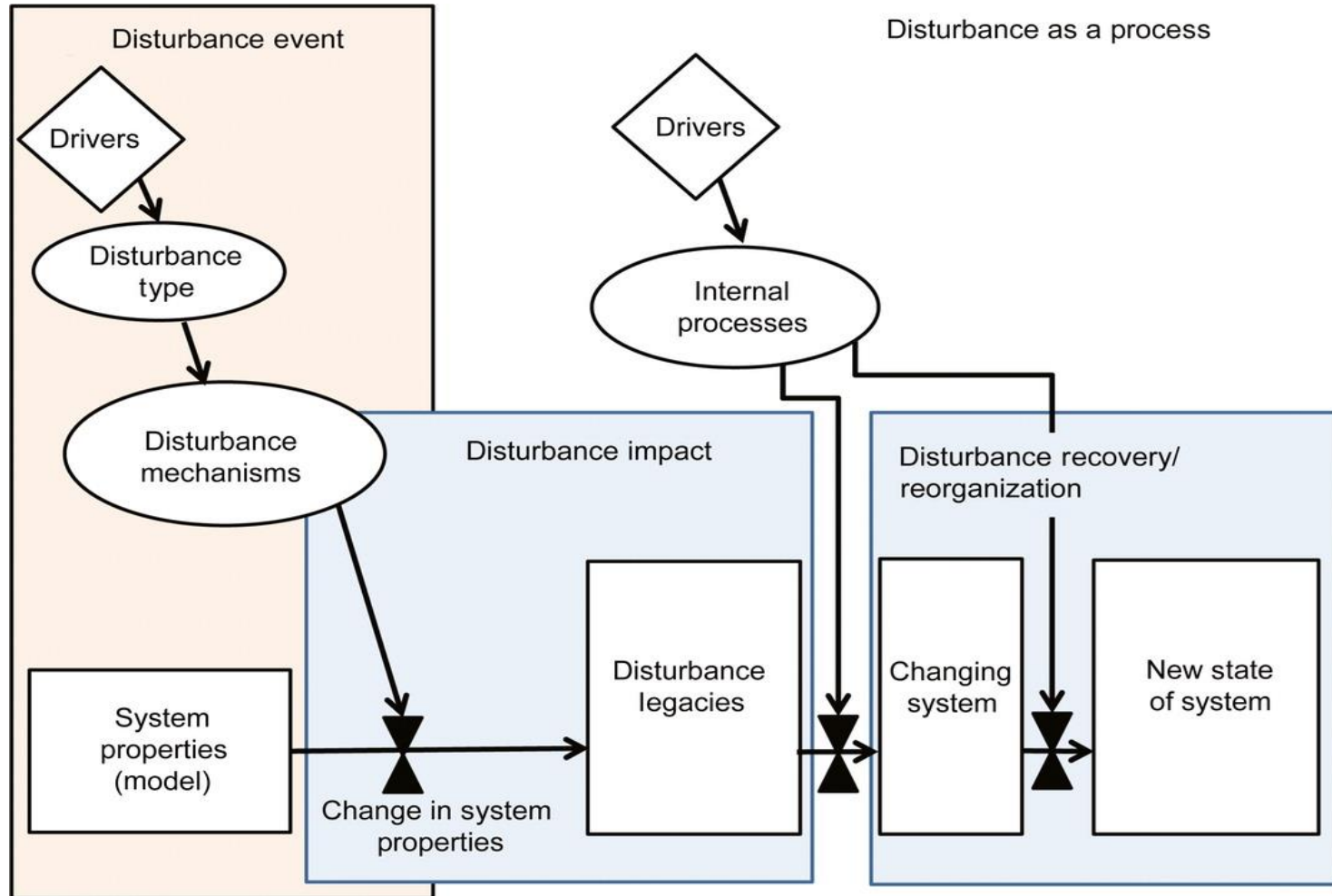
As Professor of the Arizona State University, she has mentored more than 100 scholars.

HERSTORY

She had no interest in pursuing a career in STEM, but rather something to do with foreign language. All changed after her first class in ecology at Hampshire College.

DISTURBANCE & SUCCESSION

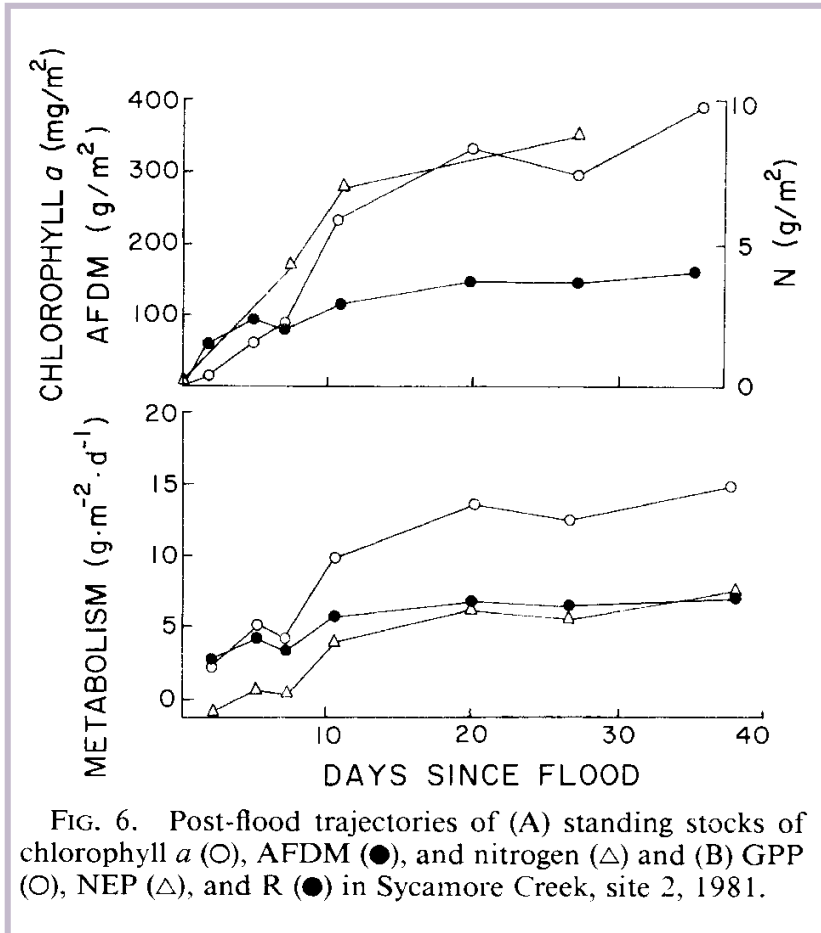
Disturbance. Discrete event that disrupts ecosystem structure and changes resources, substrate availability, or the physical environment.



Nancy B. Grimm et al. (2017). *Ecosystem Health and Sustainability*.

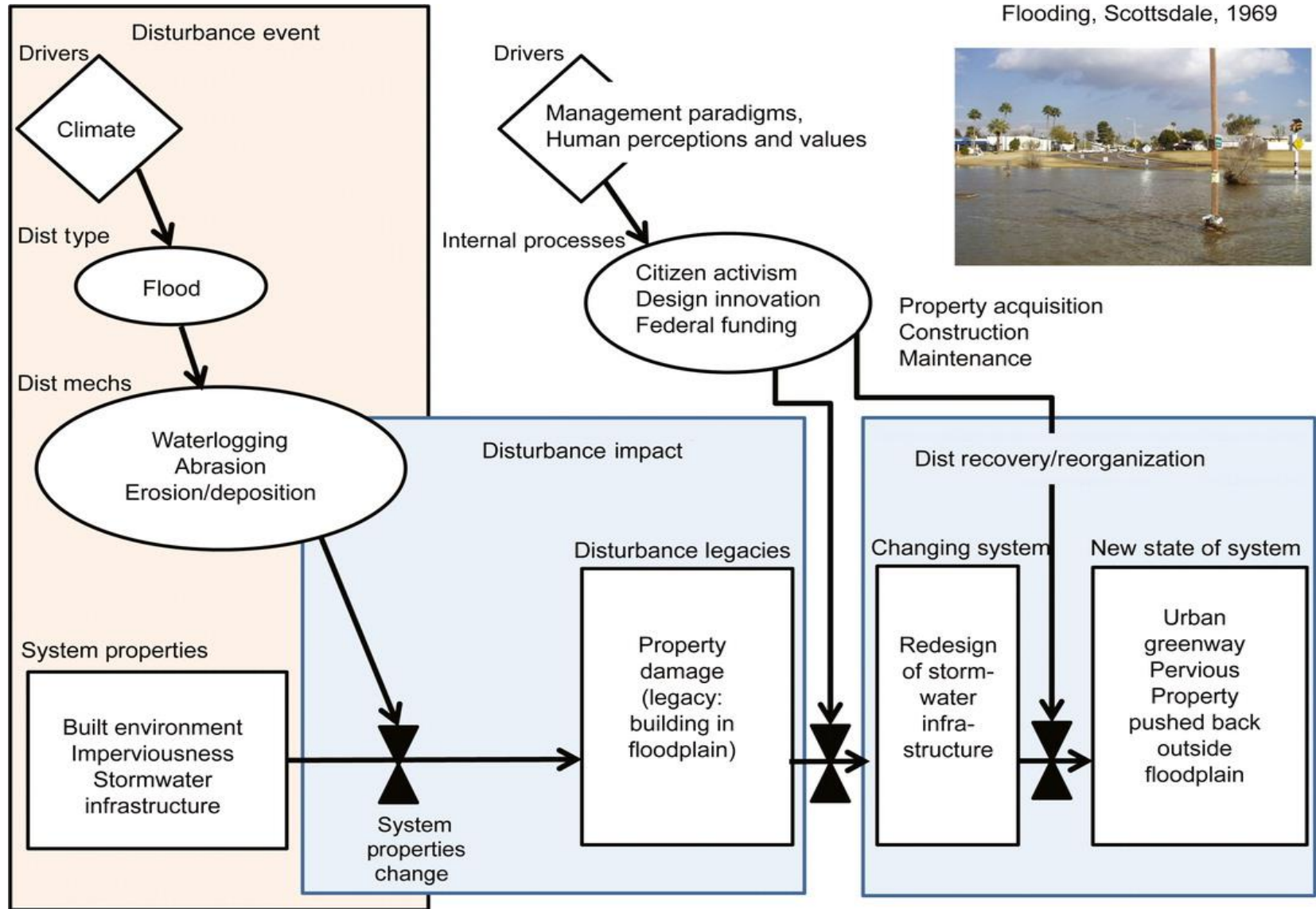
DISTURBANCE & SUCCESSION

Succession. Sequence of changes at a site after disturbance.
Component of resilience.



Example: Chlorophyll and metabolic rates recovery after a flash-flood in a desert stream.

DISTURBANCE IN URBAN SYSTEMS



Nancy B. Grimm et al. (2017). Ecosystem Health and Sustainability.

RELEVANT CONTRIBUTIONS

Grimm, N. B., Pickett, S. T., Hale, R. L., Cadenasso, M. L. (2017). Does the ecological concept of disturbance have utility in urban social–ecological–technological systems? *Ecosystem Health and Sustainability*, 3, e01255.

Grimm, N.B., Faeth, S. H., Golubiewski, N. E., Redman, C. L., Wu, J., Bai, X., Briggs, J.M. (2008). Global change and the ecology of cities. *Science*, 319, 756-760.

Dent, C. L., **Grimm, N. B.** (1999). Spatial heterogeneity of stream water nutrient concentrations over successional time. *Ecology*, 80, 2283-2298.

Grimm, N. B. (1987). Nitrogen dynamics during succession in a desert stream. *Ecology*, 68, 1157-1170.

LOOKING
FOR MORE?

You can find more information about her story and research at:

<http://www.grimm.lab.asu.edu>

<http://sols.asu.edu/nancy-grimm>

http://en.wikipedia.org/wiki/Nancy_Grimm