

AS DRAWN	ORIGINAL EXCERPT	AUTHOR	TITLE	PAGE
a more complex moral attitude sees fire as an ally in the forest, even while recognizing its power to do damage	But we are called now to a more complex moral attitude, where we see fire as an ally in the forest, even while recognizing its power to do damage.	Gary Snyder	Back on the Fire	15
a pool shines, like a bracelet shaken in a dance	a pool shines, like a bracelet shaken in a dance	Wallace Stevens	"Six Significant Landscapes", in Collected Works	74
all things are delicately interconnected	All things are delicately interconnected	Jenny Holzer	"Truisms," in Blasted Allegories, an Anthology of Writings by Contemporary Artists (Brian Wallis, ed.)	104-11
and yet you must go on an endless road, since life flows not only down a finite path but also an infinite one	And yet you must go [down?] an endless road, since life flows not only down a finite path but also an infinite one.	Carl Jung	Red Book, readers edition	250
are there deeper, slower variables in social systems, such as identity, core values, and worldviews that constrain adaptability?	Are there deeper, slower variables in social systems, such as identity, core values, and worldviews that constrain adaptability?	Carl Folke et al	Resilience Thinking: Integrating Resilience, Adaptability and Transformability	np
art is realistic when it strives to express our ethical ideal as life creates the conditions for fire, fire reshapes the living world	Art is realistic when it strives to express our ethical ideal Yet a profound interdependence emerges out of all this, for even as life creates the conditions for fire, fire reshapes the living world	Andre Tarkovsky Stephen J. Pyne	Sculpting in Time Fire: Nature and Culture	113 17
between private, subjective perception and public, physical science, culture is a middle area of shared beliefs and values... Ignoring the role of culture is arbitrary and self-defeating	Between private, subjective perception and public, physical science there lies culture, a middle area of shared beliefs and values. The present division of the subject that ignores culture is arbitrary and self-defeating.	Mary Douglas	Risk and Culture	194
can there be any agreement among us about what is beautiful	Can there be any agreement among us about what is beautiful?	Susanne Stone	Lake Tahoe: the Guidebook with a Point of View	11
change is always a part of the forest, but not to change too much	Trees large and small; wide open vistas and sunny meadows with wildflowers; cool, clear lakes and streams; dappled or deep shade on a hot day; soft earth under foot; tree canopy as an umbrella on rainy days; birds and other wildlife; and picnics! Change is always a part of the forest experience, but I like my favorite groves not to change too much!	Jill Butler	Response to Future Forest postcards	
change often involves shifts in perception and meaning, social configurations, patterns of interaction, as well as institutional arrangements	Transformational change often involves shifts in perception and meaning, social network configurations, patterns of interactions among actors...and associated organizational and institutional arrangements	Carl Folke, et al	Resilience Thinking: Integrating Resilience, Adaptability and Transformability	np
conifers were displacing deer browse, shrubfields were becoming too dense for deer to penetrate, and forage species such as deer brush were aging and becoming less palatable	Conifers were displacing deer browse, shrubfields were becoming too dense for deer to penetrate, and forage species such as deer brush were aging and becoming less palatable.	George E. Gruell	Fire in Sierra Nevada Forests: A Photographic Interpretation of Ecological Change Since 1849	214
disturbance influences recovery rates, invites alternative trajectories and can build biological capacity to adapt to changes	A substantial proportion of the literature identified presence of natural disturbance as an important determinant for recovery rates, creation of alternate trajectories, and building biological capacity to adapt to or resist change.	Britta Timpane-Padgham, et al	A systematic review of ecological attributes that confer resilience to climate change in environmental restoration	9
diversity and flexibility may be the best defenses when the one sure thing is that we can't predict important difficulties we will face in the future	When the one sure thing is that we won't be able to predict important difficulties that the nation will face in the future, diversity and flexibility may be the best defenses. Attempting to reduce risk by extinguishing variety may actually increase it.	Mary Douglas	Risk and Culture	197
don't get freaked out if you don't know everything.	Don't get freaked out if you don't know everything.	Sue Britting	personal communication	
el alcance y la magnitud del esfuerzo de restauracion necesario es enorme y el progreso podria ser lento	The scope and extent of the necessary restoration effort is huge and progress may be slow	George E. Gruell	Fire in Sierra Nevada Forests	217

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el cambio supone a menudo transformaciones de percepcion y significado, de configuraciones sociales, de habito de interaccion, ademas de configuraciones institucionales	Change often involves shifts in perception and meaning, social configurations, patterns of interaction, as well as institutional arrangements	Carl Folke, et al	Resilience Thinking: Integrating Resilience, Adaptability and Transformability	np
el futuro requerira que seamos imaginativos en cuanto a lo que podamos disfrutar, y sera probablemente bien diferente de nuestro ideal actual	The future will require us to be imaginative about what we can enjoy, and will probably be quite different from our current ideas	Robertson, et al. eds.	FutureNatural, nature, science, culture	28
forest health may look like stable points, or it may be more complicated cycles of various kinds that continue to change	Attractors may be stable points or more complicated cycles of various kinds	Carl Folke et al	Resilience Thinking: Integrating Resilience, Adaptability and Transformability	np
hemos aprendido que no se puede preservar la vegetacion forestal intentando excluir los incendios	We have learned that we cannot preserve forest and woodland vegetation by trying to exclude fire	George E. Gruell	Fire in Sierra Nevada Forests	217
history has shown that we have been our own worst enemy many times	history has shown that we have been our own worst enemy many times	Serrell Smokey	Wahoe Tribal Chairman's Blog, 8/17/20 accessed 2021	np
humans delight in solving problems and also in learning things.	Humans delight in solving problems and also in learning things. It is always difficult to find the direct connection between new learning, new problem solving, and any specific major breakthrough in knowledge and action. The point here is that we simply do not know.	Gayl Ness	Experiments in Consilience (Westley and Miller, eds.)	332
I measure myself against a tall tree. I find that I am much taller, for I reach right up to the sun, with my eye	I measure myself against a tall tree. I find that I am much taller, for I reach right up to the sun, with my eye	Wallace Stevens	"Six Significant Landscapes" in Collected Works	74
ideas about nature are supported by the social system from which they arise, while social relationships are in turn supported by the ideas of what is natural. Change in one area will require relaxation or contradiction within other parts of the system	Ideas about nature, however fantastic, are supported by their social system; conversely, the social system is supported by their ideas of nature. ...change will require various sorts of relaxation or contradiction within the system of presuppositions.	Gregory Bateson	Mind and Nature	143
if we leave future generations with generalized knowledge, craft skills, functioning institutions and mutual trust, the people of the future will have more power to respond to challenges that arise for them	By leaving them with generalized resources - knowledge, craft skills, institutions in good working order, mutual trust - the people of the future will have more discretionary power.	Mary Douglas	Risk and Culture	198
in each generation something can be asked that could not be asked before... New kinds of questions require new procedures for finding answers	But in each generation something can be asked that could not be asked before. Ours has a special experience of other cultures and expertise in assessing cultural bias. New kinds of questions bring new procedures for finding answers.	Mary Douglas	Risk and Culture	195
in order to incorporate knowledge from another field into our understanding we must get their language to translate to our language.	In order to incorporate knowledge from another discipline into our understanding, we must find ways to get that discipline's model to speak to our model.	Frances Westley	Experiments in Consilience	19
instead of the old idea of knowledge as a solid thing, we prefer the idea of knowledge as a changing product of cultural activity.	Instead of the old recurrent imagery of knowledge as a solid thing, bounded or mapped out, we prefer the idea of knowledge as the changing product of social activity.	Mary Douglas	Risk and Culture	192
interactions with nature should demonstrate true relationship, which implies reciprocity, continuity, familiarity, and continual learning.	In other words, Indian peoples' interactions with nature should demonstrate true relationship, which implies reciprocity, continuity, familiarity, and continual learning.	Kat Anderson	Tending the Wild	127
it may be helpful to separate "fast" and "slow" variables, but still keep both in mind	Within a complex system, it is helpful to focus on separating "fast" and "slow" variables.	Brian Walker et al.	Drivers, "Slow" Variables, "Fast" Variables, Shocks, and Resilience	2
la capacidad de soportar y adaptarse al cambio esta profundamente ligada a la diversidad biologica	The capacity to withstand and adapt to change is closely connected to biological diversity	Claes Enger	Changing Matters: the Resilience Exhibition Catalogue	9
la incertidumbre y la sorpresa	uncertainty and surprise	Todd Gilens	personal communication	
la relacion entre la sociedad y naturaleza es inevitable y creativa	the relationship of society and nature is inevitable and creative	George Robertson, et al. eds.	FutureNatural: nature, science, culture	49

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los interacciones con la naturaleza deberian demostrar una verdadera relacion, la cual implica reciprocidad, continuidad, familiaridad y un aprendizaje continuo	Interactions with nature should demonstrate true relationship, which implies reciprocity, continuity, familiarity, and continual learning.	Kat Anderson	Tending the Wild	127
many of our present day problems are due to the concept that nature and culture are separate processes	Most of our present-day problems are due to the arbitrary separation in our minds between the natural and the cultural.	Sander E. van der Leeuw	A Long-Term Perspective on Resilience in Socio-Natural Systems	28
no importa cuales sean las decisiones, deben lidiar con la acumulacion de combustibles forestales	No matter what the decisions are, they must deal with the unprecedented build-up of forest fuels	George E. Gruell	Fire in Sierra Nevada Forests	4
no tengo la sabiduria ni de un arbol joven y ordinario. Sin embargo, he estado escuchando - con ojos, oidos, mente, pies, yemas de los dedos - y lo que oigo es poesia	I do not have the wisdom even of a young tree of an ordinary kind. Nevertheless, I have been listening - with eyes, ears, mind, feet, fingertips - and what I hear is poetry.	Robert Bringhurst	Tree of Meaning	43
not all the knives of the lamposts, nor the chisels of the long streets, nor the mallets of the domes and high towers, can carve what one star can carve, shining through the leaves	not all the knives of the lamposts, nor the chisels of the long streets, nor the mallets of the domes and high towers, can carve what one star can carve, shining through the grape-leaves	Wallace Stevens	Collected Works - "Six Significant Landscapes"	74
one light ring plus one dark ring equals one year of life.	These rings can tell us how old the tree is, and what the weather was like during each year of the tree's life. The light-colored rings represent wood that grew in the spring and early summer, while the dark rings represent wood that grew in the late summer and fall. One light ring plus one dark ring equals one year of the tree's life.	Jessica Stoller-Conrad	<a href="https://climate.nasa.gov/news/2540/tree-rings-provide-snapshots-of-earths-past-climate/">https://climate.nasa.gov/news/2540/tree-rings-provide-snapshots-of-earths-past-climate/</a>	par 4
our efforts may have far greater effects than we can now trace	It may also have far greater symbiotic effects than we can now trace.	Gayl Ness	Experiments in Consilience (Westley and Miller, eds.)	332
people always act with the intention of bringing about a better world	People always act with the intention of bringing about a better world	David W. Chambers	Building the Moral Community	51
resilience is the capacity to use change to better cope with the unknown; it is learning to bounce back.	Resilience is the capacity to use change to better cope with the unknown; it is learning to bounce back.	Mary Douglas	Risk and Culture	196
resilience will require some updates to policies and business-as-usual approaches	Achieving resilience on the landscape will require some updates to policies and business-as-usual management approaches	Lake Tahoe West Restoration Partnership	Lake Tahoe West Landscape Restoration Strategy, draft of January 22, 2019	22
responses to environmental uncertainties include promoting flexible ideas and institutions that can respond to unforeseen conditions, while increasing the resilience of ecosystems to cope with novel disturbances	For the foreseeable future, important responses to environmental uncertainties will include creation and conservation of social mechanisms that promote flexible, adaptive response to novel and emerging issues, and increasing or maintaining the resilience of ecosystems to cope with novel perturbations.	Lance Gunderson and C.S Holling	Panarchy	187
sometimes it is named sometimes not	Sometimes it is named, sometimes not	Susan Griffin	Eros of Everyday Life	5
the climate as changed more in the last 100 years than in the 10,000 years before that	The climate as changed more in the last 100 years than in the 10,000 years before that	Sarah Di Vittorio	personal communication	
the community we create for each other is an ecosystem. Culture in this sense works like nature	The community we create for one another is, of course, the ecosystem... Culture in this sense is like nature.	Robert Bringhurst	Tree of Meaning	51
the current pace and scale of efforts is not adequate to reduce risk and turn the landscape towards resilience	The current pace and scale of restoration efforts in the Lake Tahoe West landscape is not adequate to trend the landscape towards resilience and reduce risk	Lake Tahoe West Restoration Partnership	Lake Tahoe West Landscape Restoration Strategy, draft of January 22, 2019	14
los efectos del cambio climatico fluyen a traves del paisaje y se intensificaron en maneras dificiles de predecir	The effects of climate change are already rippling through the landscape and will intensify in ways that are difficult to fully predict	Lake Tahoe West Restoration Partnership	Lake Tahoe West Landscape Restoration Strategy, draft of January 22, 2019	8
the effects of climate change are rippling through the landscape and will intensify in ways that are difficult to predict	The effects of climate change are already rippling through the landscape and will intensify in ways that are difficult to fully predict	Lake Tahoe West Restoration Partnership	Lake Tahoe West Landscape Restoration Strategy, draft of January 22, 2019	8

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the land took care of the people only if the people took care of the land and the only way to know what to do was by listening	The land took care of the people only if the people took care of the land, and the only way to know what to do was by listening to the land as elders have done as they worked it.	Jo Ann Martinez, personal comm, 1996, in Denise Jaffke et al	Burton Creek State Park Archaeological Survey Report	34
the look of the land inevitably reflects ideas about relationships between people, and new relationships produce new conditions of size and location, change and growth	For relationships among men and women usually imply spaces, and new relationships produce new ideas of spatial size and location and change or growth. The look of the land, even the look of the house, inevitably reflects those ideas.	J.B. Jackson	"The Order of a Landscape," in The Interpretation of Ordinary Landscapes (Meinig, ed.)	154
the mind is part of the body, the body is part of the world, and the world is part of the mind.	The mind is part of the body, the body is part of the world, and the world is part of the mind. The artifacts move around that circle as long as they are used.	Robert Bringhurst	Tree of Meaning	52
the public has been leery of disturbing the forest	The public is leery of disturbing the forest	George E. Gruell	Fire in Sierra Nevada Forests	3
the relationship of society and nature is inevitable and creative	A political theory of nature has to find a way of expressing several things: the inevitability and creativity of the social relationship with nature; the very real project of domination embodied in the capitalist mode of production; the differentiated relationship with nature according to gender, class, race, sexual preference; the implausibility of an autonomous nature; and a strong response to the almost instinctive romanticism which pervades most treatments of nature in bourgeois and patriarchal society.	George Robertson, et al. eds.	FutureNatural: nature, science, culture	49
the scope and extent of the necessary restoration effort is huge and progress may be slow	The scope and extent of the necessary restoration effort is huge and progress may be slow	George E. Gruell	Fire in Sierra Nevada Forests	217
this deed is still more distant from them than the most distant stars and yet they have done it themselves	This deed is still more distant from them than the most distant stars and yet they have done it themselves	Fredrich Nietzsche	The Gay Science, quoted in Robert Pogue Harrison, Forests: the Shadow of Civilization	?
understanding is not produced by a single method or point of view	comprehensive understanding is not produced by a single method or point of view	Todd Gilens	personal comm	
walk in the light of your fire and in the flame which you have kindled for yourselves	Walk in the light of your fire and in the flame which you have kindled for yourselves.	Edward Edinger	Anatomy of the Psyche, quoting Isaiah 50:11	29
we must now seriously consider fire's value to forest management	We did not seriously consider fire's value to forest management.	George E. Gruell	Fire in Sierra Nevada Forests	217
what climate information is reflected in tree rings from before records were collected	Where does climate information come from before climate records were kept?	Kyla Crock	Fire History from Tree Rings. Justification: Wildfires in Montana and Idaho (online)	np
what features of social structures and conditions enhance social-ecological resilience?	What are the features of agency, actor groups, social learning, networks, organizations, institutions, governance structures, incentives, political and power relations or ethics the enhance or undermine social-ecological resilience?	Carl Folke et al	Resilience Thinking: Integrating Resilience, Adaptability and Transformability	np
when something terrible happens people wake up	when something terrible happens people wake up	Jenny Holzer	"Truisms," in Blasted Allegories, an Anthology of Writings by Contemporary Artists (Brian Wallis, ed.)	104
you are the past present and future	you are the past present and future	Jenny Holzer	"Truisms," in Blasted Allegories, an Anthology of Writings by Contemporary Artists (Brian Wallis, ed.)	111