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Fighting "Violence Against The Earth": Rosalind Peterson's Historical Archives

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ABSTRACT

United States citizen scientist, researcher, and anti-geoengineering activist, Rosalind Peterson of Mendocino, California, proved both pioneer and prophet. She helped catalyze a global grassroots anti-geoengineering movement through her decades-long work crusading for clearer skies, cleaner water, healthier trees and plants, and a more resilient planet free of geoengineering fallout. Peterson combined scientific data collection and research, publishing, public speaking, and political advocacy to educate the world about the many negative environmental consequences of clandestine geoengineering. Founder of the California Skywatch in 2002 and the Agricultural Defense Coalition in 2006, Peterson built an extensive collection of multimedia materials over three decades, now being archived and curated through Our Geoengineering Age for public use by the global scientific community. As an initial "sort" of her extensive archival collection reveals, Peterson proved a tenacious and courageous citizen scientist who wore many hats: environmentalist, photographer, field scientist/researcher, writer, speaker, and activist/publicist. Peterson's decades-long effort to uncover the myriad toxic environmental impacts of clandestine geoengineering also provides a compelling, scientifically researched alternative to the widely accepted theory advanced by the United Nations' Intergovernmental Panel on Climate Change (IPCC) that global warming is primarily caused by anthropogenically released carbon dioxide.

Keywords: Rosalind Peterson, Solar radiation management; Geoengineering; Agricultural Defense Fund; California Skywatch; Water quality; Strategic aerosol injection; Weather modification.

INTRODUCTION

"Rosalind Peterson - warrior for clean skies, survival of trees and plants, and marine life - has passed into Spirit," observed California Skywatch's Facebook page in November 2018. "We are grateful for her life and work" [1] (Figure 1).



Figure 1. California Skywatch's Facebook home page – November 2020.
SOURCE: Facebook.com.

Two years after Peterson's passing, her extensive archives are now being unearthed and organized by members of the Our Geoengineering Age (OGA) research team, with the purpose of archiving and curating her collection for public use by the global scientific community. This article provides an overview and introduction to Peterson's archives. As OGA's chief archivist tasked with organizing the Peterson papers, I am interested in providing scientists and citizens with an archival look at Peterson's interdisciplinary approach fueling her anti-geoengineering activism as a citizen scientist.

A bird's eye view of Peterson's print/analog archives reveals fifty medium-sized cardboard boxes filled with three ring binders, primarily organized either alphabetically or by year. When examined alongside her collection of photographic albums, maps, charts, books, and variety of governmental, military, and scientific reports, interested parties gain access to her exhaustive exploration of the world's most underreported environmental issue - weather and climate modification, or "geoengineering." This introduction to Peterson's archives spotlights six overlapping interdisciplinary approaches Peterson brought to bear on her anti-geoengineering work, and, by way of illustration, references individual boxes and documents in her collection.

SPEAKING FOR THE TREES: PETERSON AS ENVIRONMENTALIST

First and foremost, as a citizen-scientist, Peterson possessed a keen interest in all living things. She cast a wide information-gathering net in researching and making sense of what was at the time largely unknown geoengineering efforts. Throughout her decades-long career, the California-born environmental scientist pursued a broad, interdisciplinary approach to document the emerging local, regional, national, and global efforts to modify the planet's weather and climate. She sought out information from a wide variety of multimedia sources, rather than confining herself to increasingly specialized and "niche" scientific journals.

Peterson's book collection, for example, indicates that she proved a voracious and wide-ranging reader. One would expect her to be reading books such as the now-classic 1983 text *Microclimate: The Biological Environment* (Norman J. Rosenberg, Blaine L. Blad et al.), or the 1987 text *Weather*

(Bruce Atkinson and Alan Gadd), which "explains the causes of weather conditions and discusses how scientists use technology to forecast the weather." Given her focus on geoengineering, Peterson kept up with emerging books exploring climate change, such as John D. Cox's 2005 *Climate Crash: Abrupt Climate Change and What it Means for Our Future.* Cox's biography describes him as a "veteran journalist and author who has focused on hard news in the areas of science, environment, and politics.' Other seminal "global warming" books, including Bill McKibben's *End Of Nature* (1989) and Al Gore's *An Inconvenient Truth* (2007) can also be found in Peterson's collection [2].

Beyond meteorology and climate, however, Peterson proved keenly interested in many other disciplines. Her archives reveal books on "weather derivatives," for example, exploring the relationship between weather predictions (and manipulations) and market investments, such as Lawrence J. Oxley's provocatively titled *Extreme Weather And Financial Markets: Opportunities In Commodities And Futures* (2012). "The effects of climate change present challenges to many sectors, but also present major investing opportunities in the stock, bond, and futures markets," explains the book's summary. "*Extreme Weather and The Financial Markets* looks at climate change from an investor's standpoint." As reported in my previous paper, "Warrior For Clean Skies," Peterson was one of the first scientists to speak out publicly on the relationship between market investing and geoengineering, catalyzed, no doubt, by her research into the subject [3].



Figure 2. One of many book boxes from Rosalind Peterson's collection.
SOURCE: Box 10, Rosalind Peterson archives.

A working field biologist, Peterson also found time to read widely in politics and humanities. A representative sampling of her archival materials includes the following texts: US veteran journalist Seymour Hersh's *Chain Of Command: The Road From 9/11 To Abu Ghraib* (2004), Senator Bob Graham's *Intelligence Matters: The CIA, the FBI, Saudi Arabia and the Failure of America's War On Terror* (2004), US intelligence officer Richard A. Clarke's *Against All Enemies: Inside America's War On Terror* (2004), David Cay Johnston's *Perfectly Legal: The Covert Campaign To Rig Our Tax System To Benefit The Super Rich* (2005*)*, John Perkins' classic *Confessions Of An Economic Hit Man: The Secret History Of American Empire* (2004), and Michael Hardt and Antonio Negri's *Empire* (2000), exploring the rise of globalization as a defining 21st century economic and political force shaping human civilization. Clearly, as a citizen scientist, Peterson kept her finger on

the pulse of much broader and vital socioeconomic and political debates central to her historical moment.

In addition to her book collection, Peterson recorded and catalogued a wide range of videos, including interviews, documentary films, and news programs. A look at a single page from her archives, for example, indicates she kept regular track of political programming such as *Face The Nation* and *Meet The Press*, as well as recorded interviews with a variety of US political leaders such as Senators Edward Kennedy, Jim Corzine, and Hillary Clinton. Figure 3 is but a small sampling of materials from Peterson's boxes of VHS tapes and CD-ROMs.

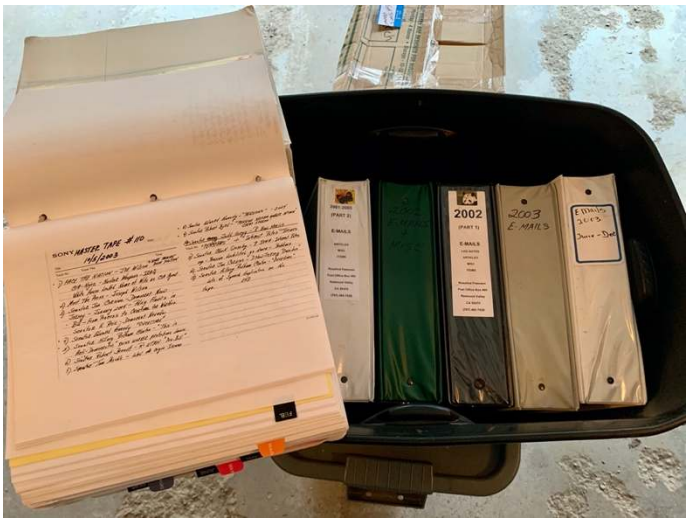


Figure 3. One of Peterson's many video program catalogue list sheets.
SOURCE: Box 27, Rosalind Peterson archives.

Finally, three more examples from three different archival boxes highlight the diverse interdisciplinary richness of Peterson's research. The book *Case Orange: Contrail Science, It's Impact On Weather And Climate Manipulation Programs Conducted By The United States And Its Allies*, prepared in 2010 by Belgium's Belfort "Citizens In Action" Group, indicates that Peterson was in touch with emerging anti-geoengineering groups in Europe. A version of the *Case Orange* "loose-leaf report" now sells on Amazon for $954.97, and an Internet search reveals no available free digital document facsimile of this report, making the *Case Orange* document of particular historical value for the global anti-geoengineering research and citizen activist communities [4].

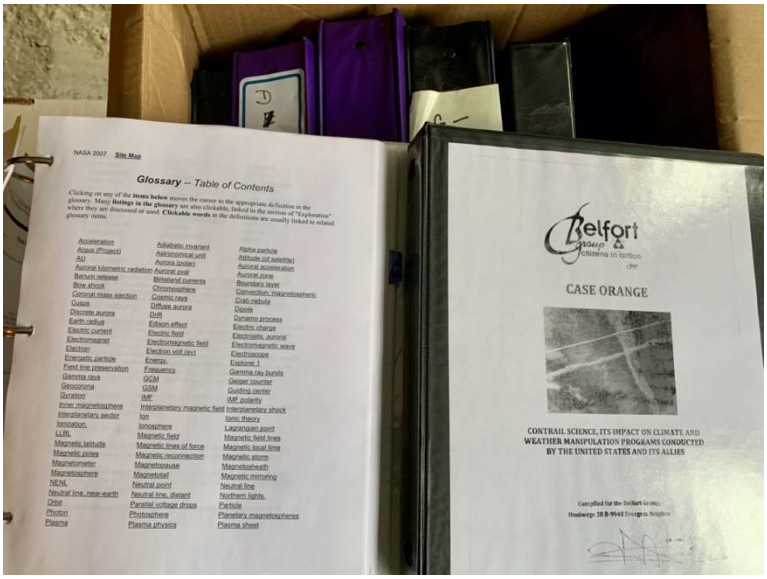


Figure 4. Belgium's Belfort Group's *Case Orange's* 2010 "contrail science" report. SOURCE: Box 31, Rosalind Peterson archives.

Nationally, meanwhile, Peterson grew interested in the United States Military's weather and climate modification efforts, as well as the US Military's collective impact on the planet's total climate system. Figure 5 is a picture of one of many binders (Binder A) Peterson organized chronicling the US Navy's "Warfare Testing," featuring letters, documents, and information about US military activities in California, Oregon, Washington, and Idaho

.



Figure 5. U.S. Navy Warfare Testing (2008-2009) – Binder A. SOURCE: Box 40, Rosalind Peterson archives.

Locally, Peterson never strayed from her interdisciplinary environmental focus on the land she loved, California, and the Golden State's air, forest and water quality. An April 1990 "Environmental Toxicology" report unearthed from her archives stands as clear evidence of her enduring interest, a document Peterson retained until her death. As previously reported in "Warrior For Clean Skies":

> *As a young woman, Peterson pursued an undergraduate degree (BA) at northern California's Sonoma State University, graduating in 1991 with a degree in Environmental Studies & Planning. Her undergraduate studies focused on fusing longtime and emerging environmental knowledge and skills, including "solar power, photosynthesis, agriculture, crop production, and the efficient use of energy in the future" Between 1989 and 1993, while pursuing her undergraduate degree, Peterson worked as an Agricultural Technologist for the Mendocino County Department of Agriculture.*

Peterson most likely acquired the report shown in Figure 6 during her undergraduate career at Sonoma State University.

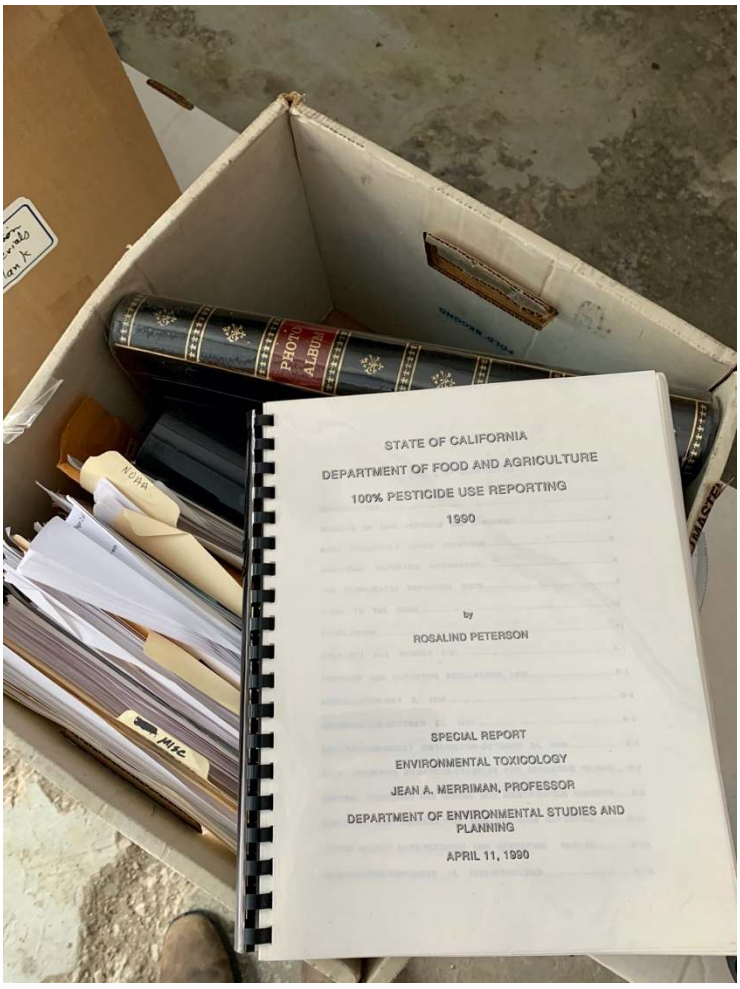


Figure 6.: State of California 1990 Department of Food And Agriculture Pesticide Report. SOURCE: Box 48, Rosalind Peterson archives.

EYE ON THE SKY: PETERSON AS PHOTOGRAPHER

From her earliest years as a child growing up on the West Coast, Peterson showed an interest in two things: sky watching and photography. The 1959 Polaroid photograph below is our single best example of her documenting the visual from girlhood; her archives are full of her sky watching photographs spanning a number of media technologies: Polaroids, 35 mm film, CD-ROMS, and digital files. Fortunately, Peterson retained a number of physical albums of her geoengineering photographs, as well, given the ever-changing nature (and obsolescence of) photographic storage technology.

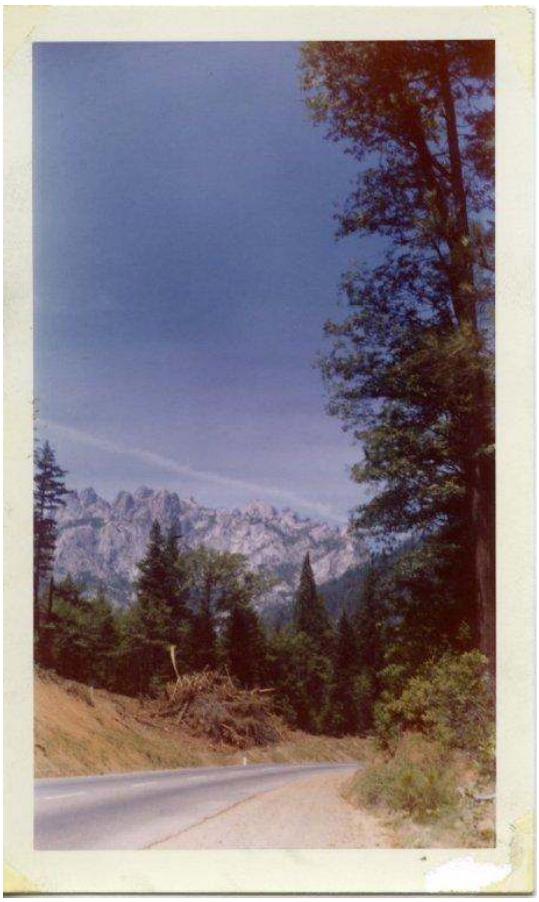


Figure 7. Polaroid photograph taken by Peterson from Road 323 in Oregon on June 17, 1959. She notes on her CSW web site that this image is "the earliest photograph that I have showing a persistent jet contrail. In Mendocino County, California, the earliest known photographs of persistent jet trails date back to 1988."
SOURCE: CaliforniaSkywatch.com.

Figures 8-11 are examples from Peterson's archives of her "eye on the sky" geoengineering photography. More work needs to be done to curate her images in more strategic fashion. Suffice to say, Peterson proved prolific as a geoengineering photographer - and her early efforts no doubt inspired more careful sky watching on the part of the global environmental community.



Figure 8. Early album of Peterson's geoengineering photographs.
SOURCE: Box 2, Rosalind Peterson archives.



Figure 9. May 27-28, 2002 page from an album of Peterson's geoengineering photographs.
SOURCE: Box 22, Rosalind Peterson archives.

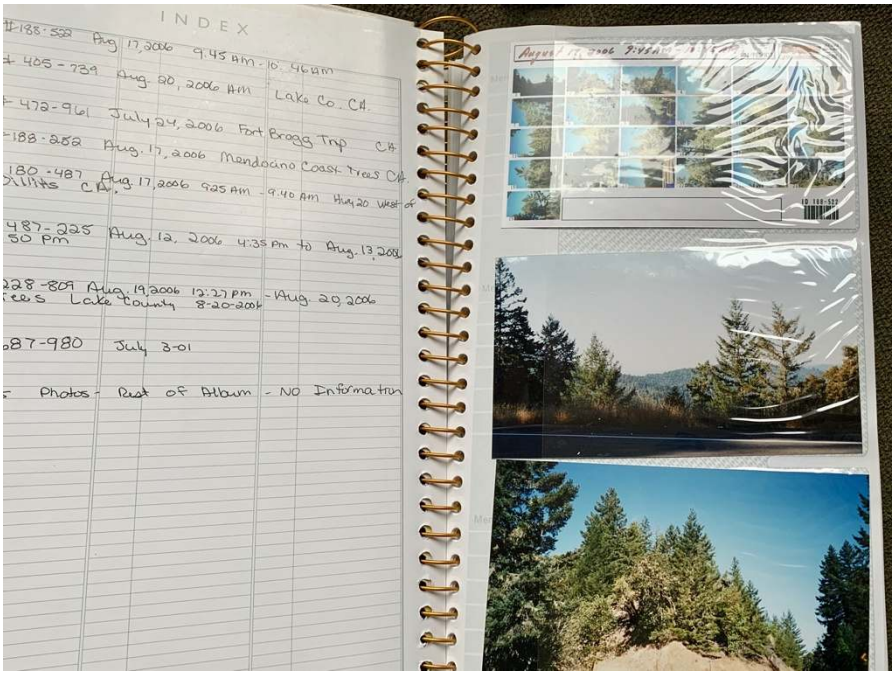


Figure 10. A single page from a summer 2006 album of Peterson's geoengineering photographs, indicating her efforts to more strategically curate a visual history of weather modification activity in California.
SOURCE: Box 23, Rosalind Peterson archives.



Figure 11. A box containing several albums of Peterson's geoengineering photographs.
SOURCE: Box 38, Rosalind Peterson archives.

HANDS ON THE LAND: PETERSON AS FIELD SCIENTIST / POLICY RESEARCHER

Peterson's passion for photography, training her eyes on the sky, was equally matched by her "hands on the land" approach on the ground. As a trained field scientist, Peterson routinely engaged in scientific measuring and data collection as a matter of course. This illustrative paper is not the place for an exhaustive review of Peterson's research work, but several examples will suffice to illustrate the depth and breadth of her efforts in the field. Worthy of note is Peterson's

marrying of field data with policy documents – her archive is full of measurement tables, complemented with policy papers and conference journals. Though not a trained historian, Peterson also appreciated the importance of the past in contextualizing ongoing geoengineering efforts' impacts on the planet's air, land and water quality. One primary example unearthed in her archive is this 1916-1917 U.S. Department of Agriculture "Report Of The Chief Of The Weather Bureau," shown in Figure 12.

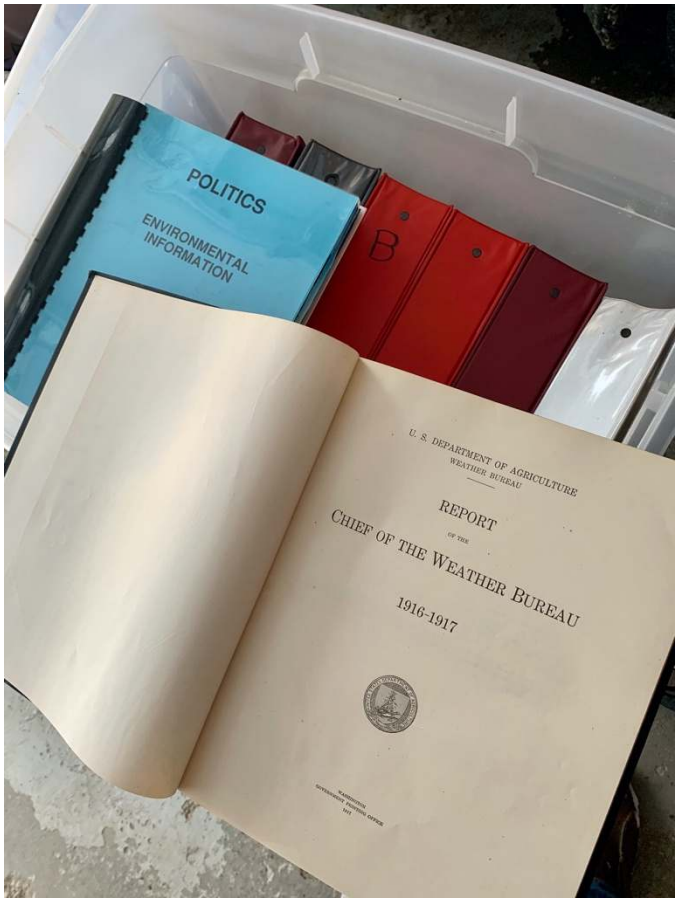


Figure 12. 1916-1917 U.S. Department of Agriculture "Report Of The Chief Of The Weather Bureau from the Washington Government Printing Office (1917).
SOURCE: Box 32, Rosalind Peterson archives.

One vital focus of Peterson's field research involved measuring and establishing links between geoengineering and the global decline of birds, bees and other pollinators. Her archive reveals her ongoing interest in exploring this theme, as evidenced by Figure 13.



Figure 13. Peterson's "Decline Of All Pollinators" 3 ring binder, cataloguing field research and articles over a nearly two decade period.
SOURCE: Box 33, Rosalind Peterson archives.

From early in her field research career, Peterson also pursued data collection in order to explore geoengineering's impact on the atmosphere and the world's oceans. Interestingly, Peterson anticipated and challenged, through her own field research, the United Nations' sponsored Intergovernmental Panel On Climate Change's (IPCC) overreliance on computers - "climate modeling" - rather than ongoing physical measurements in the air, on land, and in water bodies like lakes and rivers, to accurately establish possible causes of weather and climate modification. See Figures 14 and 15.

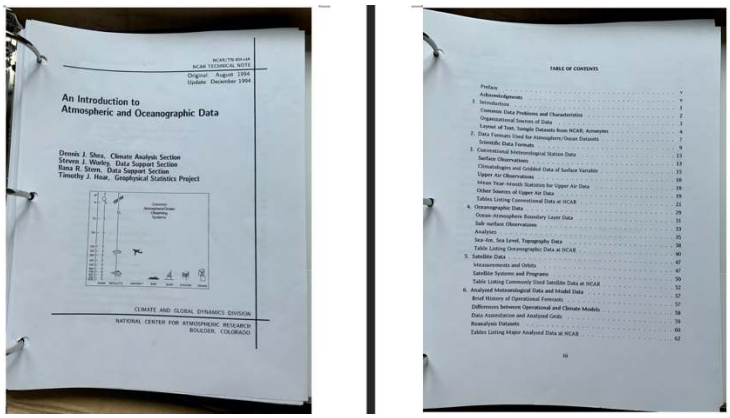


Figure 14. "An Introduction to Atmospheric and Oceanographic Data." Note the table of contents highlighting "differences between operational and climate models" in chapter 6. (1994)
SOURCE: Box 9, Rosalind Peterson archives.

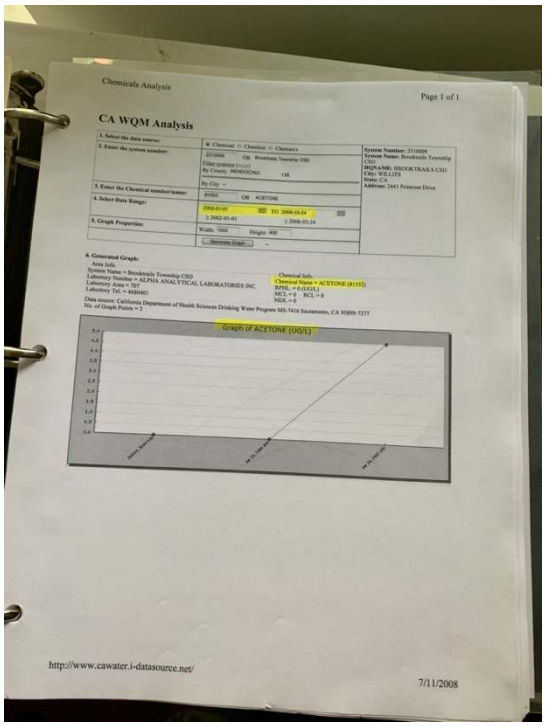
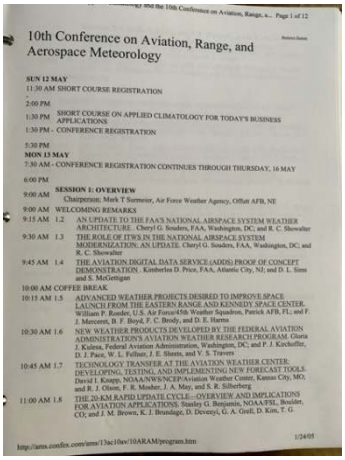


Figure 15. Six years of California Department of Health Sciences Drinking Water Program Analysis: 2002-2008. This particular data set focuses on acetone.
SOURCE: Box 16, Rosalind Peterson archives.

With Peterson's founding of California Skywatch (2002) and the Agricultural Defense Coalition (2006) (the two nonprofits merged in 2011), she more directly turned her field research toward exploring the impact of weather and climate modification – geoengineering – on air, land, and water quality. Her archive contains a wide variety of documents pertaining to both civilian and military efforts to actively "manage" the planet's atmosphere.

Consider Figures 16, 17, 18 and 19 below – four examples of Peterson's work marrying her interest in field research with ongoing weather and climate modification efforts.

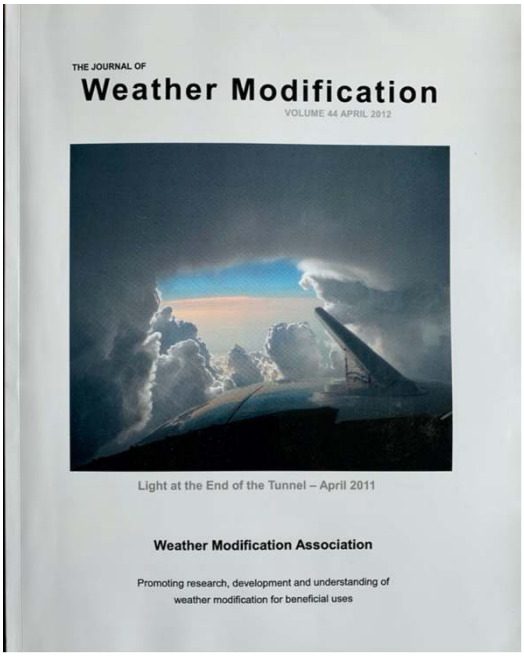


10th Conference on Aviation, Range, and Aerospace Meteorology

SUN 12 MAY
11:30 AM SHORT COURSE REGISTRATION
2:00 PM
1:30 PM SHORT COURSE ON APPLIED CLIMATOLOGY FOR TODAY'S BUSINESS APPLICATIONS
1:30 PM - CONFERENCE REGISTRATION
5:30 PM
MON 13 MAY
7:30 AM - CONFERENCE REGISTRATION CONTINUES THROUGH THURSDAY, 16 MAY
6:00 PM
9:00 AM SESSION 1: OVERVIEW
Chairperson: Mark T Surmeier, Air Force Weather Agency, Offutt AFB, NE
9:00 AM WELCOMING REMARKS
9:15 AM 1.2 AN UPDATE TO THE FAA'S NATIONAL AIRSPACE SYSTEM WEATHER ARCHITECTURE. Cheryl G. Souders, FAA, Washington, DC; and R. C. Showalter
9:30 AM 1.3 THE ROLE OF ITWS IN THE NATIONAL AIRSPACE SYSTEM MODERNIZATION: AN UPDATE. Cheryl G. Souders, FAA, Washington, DC; and R. C. Showalter
9:45 AM 1.4 THE AVIATION DIGITAL DATA SERVICE (ADDS): PROOF OF CONCEPT DEMONSTRATION. Kimberlee D. Price, FAA, Atlantic City, NJ; and D. L. Sinn and S. McGettigan
10:00 AM COFFEE BREAK
10:15 AM 1.5 ADVANCED WEATHER PROJECTS DESIRED TO IMPROVE SPACE LAUNCH FROM THE EASTERN RANGE AND KENNEDY SPACE CENTER. William P. Roeder, U.S. Air Force/45th Weather Squadron, Patrick AFB, FL; and F. J. Merceret, B. F. Boyd, F. C. Brody, and D. E. Harms
10:30 AM 1.6 NEW WEATHER PRODUCTS DEVELOPED BY THE FEDERAL AVIATION ADMINISTRATION'S AVIATION WEATHER RESEARCH PROGRAM. Gloria J. Kulesa, Federal Aviation Administration, Washington, DC; and P. J. Kirchoffer, D. J. Pace, W. L. Fellner, J. E. Sheets, and V. S. Travers
10:45 AM 1.7 TECHNOLOGY TRANSFER AT THE AVIATION WEATHER CENTER: DEVELOPING, TESTING, AND IMPLEMENTING NEW FORECAST TOOLS. David I. Knapp, NOAA/NWS/NCEP/Aviation Weather Center, Kansas City, MO; and R. J. Olson, F. R. Mosher, J. A. May, and S. R. Silberberg
11:00 AM 1.8 THE 20-KM RAPID UPDATE CYCLE—OVERVIEW AND IMPLICATIONS FOR AVIATION APPLICATIONS. Stanley G. Benjamin, NOAA/FSL, Boulder, CO; and J. M. Brown, K. J. Brundage, D. Devenyi, G. A. Grell, D. Kim, T. G.

http://ams.confex.com/ams/13ac10aw/10ARAM/program.htm 1/24/05

Figure 16. 10th Conference on Aviation, Range, And Aerospace Meteorology – Note the 10:30 am presentation on "New Weather Products." (2005)
SOURCE: Box 18, Rosalind Peterson archives.



THE JOURNAL OF
Weather Modification
VOLUME 44 APRIL 2012

Light at the End of the Tunnel – April 2011

Weather Modification Association

Promoting research, development and understanding of weather modification for beneficial uses

Figure 17. Light at the End of the Tunnel! "The Journal Of Weather Modification," published by the Weather Modification Association, "promoting research, development, and understanding of weather modification for beneficial uses." (April 2011)
SOURCE: Box 1, Rosalind Peterson archives.

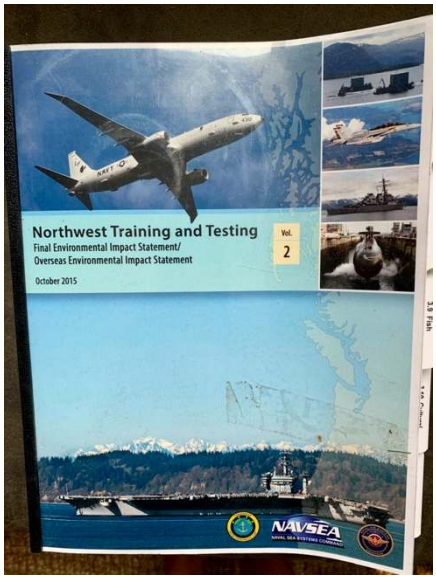
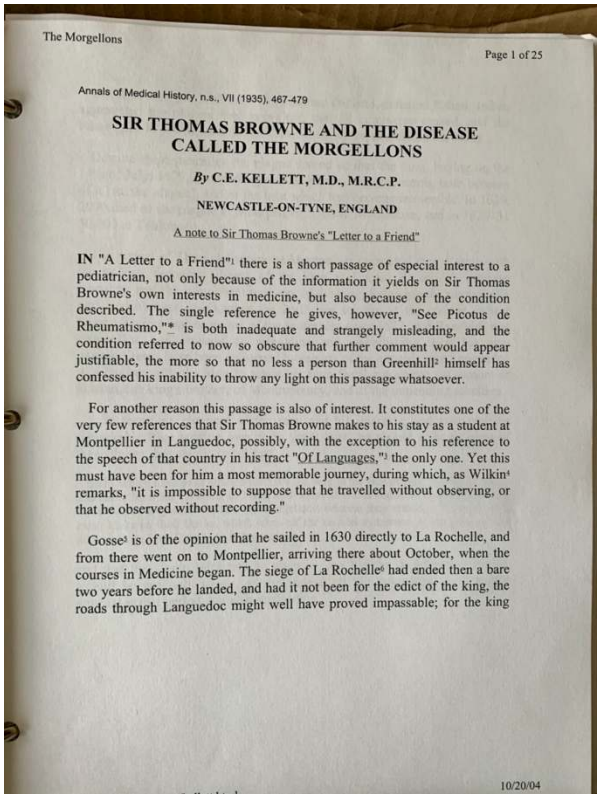


Figure 18. Volume 2 of the US Navy's Environmental Impact Statement for "Northwest Training and Testing (October 2015).
SOURCE: Box 12, Rosalind Peterson archives.



Figure 19. An archival box featuring Peterson's outreach package focused on educating recipients about the environmental impacts of US NAVY training and testing, including weather and climate modification, and a 2005 *Popular Mechanics* USN cover story. (2015)
SOURCE: Box 30, Rosalind Peterson archives.

For Peterson and a growing number of researchers in the global anti-geoengineering community, the presence of what is popularly referred to as "Morgellon's Disease" is the most provocative indication that ongoing geoengineering efforts are altering human beings themselves. New Mexico researcher Clifford Carnicom of the Carnicom Institute is perhaps the most authoritative source on Morgellons, what Carnicom himself now refers to as "cross-domain bacteria." From her archives, it appears that Peterson as a field researcher had some awareness of the emerging connections between geoengineering and Morgellons Disease, as her files indicate.



The Morgellons

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Annals of Medical History, n.s., VII (1935), 467-479

SIR THOMAS BROWNE AND THE DISEASE CALLED THE MORGELLONS

By C.E. KELLETT, M.D., M.R.C.P.

NEWCASTLE-ON-TYNE, ENGLAND

A note to Sir Thomas Browne's "Letter to a Friend"

IN "A Letter to a Friend"[1] there is a short passage of especial interest to a pediatrician, not only because of the information it yields on Sir Thomas Browne's own interests in medicine, but also because of the condition described. The single reference he gives, however, "See Picotus de Rheumatismo,"* is both inadequate and strangely misleading, and the condition referred to now so obscure that further comment would appear justifiable, the more so that no less a person than Greenhill[2] himself has confessed his inability to throw any light on this passage whatsoever.

For another reason this passage is also of interest. It constitutes one of the very few references that Sir Thomas Browne makes to his stay as a student at Montpellier in Languedoc, possibly, with the exception to his reference to the speech of that country in his tract "Of Languages,"[3] the only one. Yet this must have been for him a most memorable journey, during which, as Wilkin[4] remarks, "it is impossible to suppose that he travelled without observing, or that he observed without recording."

Gosse[5] is of the opinion that he sailed in 1630 directly to La Rochelle, and from there went on to Montpellier, arriving there about October, when the courses in Medicine began. The siege of La Rochelle[6] had ended then a bare two years before he landed, and had it not been for the edict of the king, the roads through Languedoc might well have proved impassable; for the king

10/20/04

Figure 19. A sample of Peterson's Morgellons documents.
SOURCE: Box 8, Rosalind Peterson archives.

WORDS FOR THE EARTH: PETERSON AS WRITER

An interdisciplinary reader, dogged photographer, and disciplined field biologist, Peterson also proved a prolific writer. It is tempting to analogize: Rosalind Peterson is to the anti-geoengineering effort what scientist Rachel Carson was to the anti-DDT effort. True, Peterson never wrote a globally transformative book like Carson's 1962 classic *Silent Spring*, now billed in its subtitle as "the classic that launched the environmental movement" [6]. But Peterson proved a gifted wordsmith, with a penchant for asking compelling scientific questions in a conversational style. She also possessed an indefatigable energy, as our ongoing survey of her archives has begun to reveal.

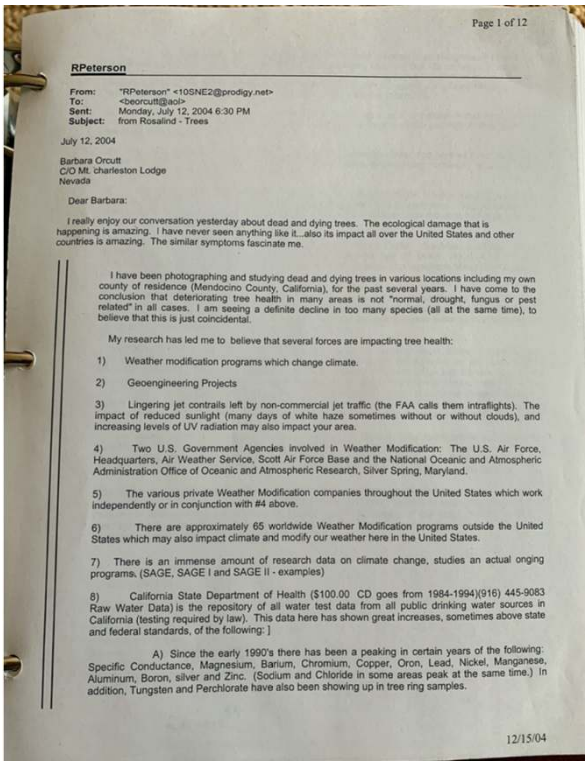
Here are three examples of Peterson's work as a writer in advocating for a civilizational reckoning with geoengineering. Consider her 2004 letter to Nevada's Barbara Orcutt, below.

After a personable introduction, Peterson gets right down to business, explaining her visual documentation of "dead and dying trees," and pointing out "several forces…impacting tree health:

1. *"Weather modification programs which change climate"*
2. *"Geoengineering projects"*
3. *"Lingering jet contrails left by non-commercial jet traffic…"*
4. *"Two U.S. Government Agencies involved in Weather Modification" – the U.S. Air Force and the National Oceanic and Atmospheric Administration*
5. *"The various private Weather Modification Companies throughout the United States"*
6. *"Approximately 65 worldwide Weather Modification programs outside the United States"*

In her e-mailed letter, Peterson then referenced California water quality data indicating the dramatically elevated presence of "magnesium, barium, chromium, copper, lead, manganese, aluminum, boron, silver and zinc," since, she notes, "the early 1990s."

The writing excerpt from Peterson's archives (Figure 20) illustrates her ability, as a researcher/writer, to combine a conversational style with the marshalling of scientific data in an accessible manner.



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RPeterson

From: "RPeterson" <10SNE2@prodigy.net>
To: <beorcutt@aol>
Sent: Monday, July 12, 2004 6:30 PM
Subject: from Rosalind - Trees

July 12, 2004

Barbara Orcutt
C/O Mt. charleston Lodge
Nevada

Dear Barbara:

I really enjoy our conversation yesterday about dead and dying trees. The ecological damage that is happening is amazing. I have never seen anything like it...also its impact all over the United States and other countries is amazing. The similar symptoms fascinate me.

I have been photographing and studying dead and dying trees in various locations including my own county of residence (Mendocino County, California), for the past several years. I have come to the conclusion that deteriorating tree health in many areas is not "normal, drought, fungus or pest related" in all cases. I am seeing a definite decline in too many species (all at the same time), to believe that this is just coincidental.

My research has led me to believe that several forces are impacting tree health:

1) Weather modification programs which change climate.

2) Geoengineering Projects

3) Lingering jet contrails left by non-commercial jet traffic (the FAA calls them intraflights). The impact of reduced sunlight (many days of white haze sometimes without or without clouds), and increasing levels of UV radiation may also impact your area.

4) Two U.S. Government Agencies involved in Weather Modification: The U.S. Air Force, Headquarters, Air Weather Service, Scott Air Force Base and the National Oceanic and Atmospheric Administration Office of Oceanic and Atmospheric Research, Silver Spring, Maryland.

5) The various private Weather Modification companies throughout the United States which work independently or in conjunction with #4 above.

6) There are approximately 65 worldwide Weather Modification programs outside the United States which may also impact climate and modify our weather here in the United States.

7) There is an immense amount of research data on climate change, studies an actual onging programs, (SAGE, SAGE I and SAGE II - examples)

8) California State Department of Health ($100.00 CD goes from 1984-1994)(916) 445-9083 Raw Water Data) is the repository of all water test data from all public drinking water sources in California (testing required by law). This data here has shown great increases, sometimes above state and federal standards, of the following:]

A) Since the early 1990's there has been a peaking in certain years of the following: Specific Conductance, Magnesium, Barium, Chromium, Copper, Oron, Lead, Nickel, Manganese, Aluminum, Boron, silver and Zinc. (Sodium and Chloride in some areas peak at the same time.) In addition, Tungsten and Perchlorate have also been showing up in tree ring samples.

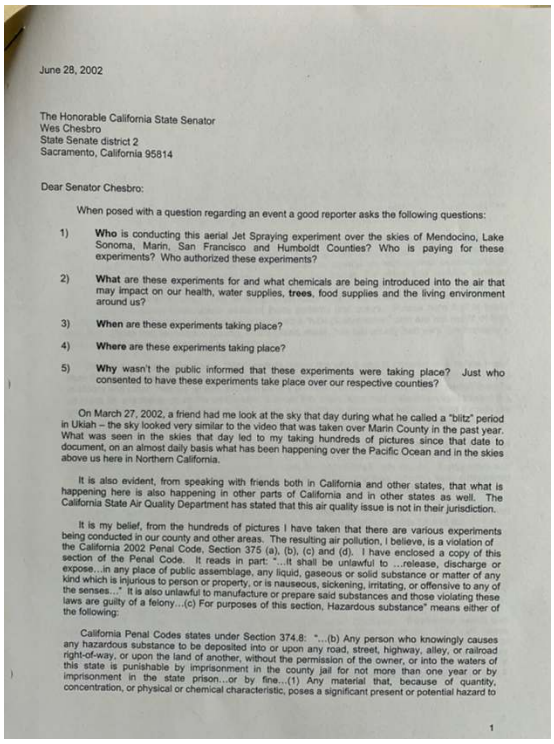
12/15/04

Figure 20. Peterson's July 12, 2004 geoengineering letter emailed to Nevada's Barbara Orcutt. SOURCE: Box 2, Rosalind Peterson archives.

Below, consider a second example illustrating Peterson's gifts as a writer. In a June 28, 2002 letter to California state senator Wes Chesbro, Peterson begins, not with scientific data, but with questions "a good reporter asks," she states in her letter's introduction.

1. Who is conducting the aerial Jet Spraying experiment over the skies of Mendocino, Lake Sonoma, Marin, San Francisco, and Humbolt Counties? Who is paying for these experiments? Who authorized these experiments?
2. What are these experiments for and what chemicals are being introduced into the air that may impact our health, water supplies, trees, [italics hers] food supplies and the living environment around us?
3. When are these experiments taking place?
4. Where are these experiments taking place?
5. Why wasn't the public informed that these experiments were taking place? Just who consented to have these experiments take place over our respective counties?

In her emailed letter (Figure 21), Peterson also documents her own history as a geoengineering photographer (beginning in earnest in 2002), and cites the state of California's penal code regarding punishment for the knowing deposit of "hazardous substances" into the atmosphere. This letter represents another powerful example of Peterson's ability to combine scientific data with clear and accessible prose.



June 28, 2002

The Honorable California State Senator
Wes Chesbro
State Senate district 2
Sacramento, California 95814

Dear Senator Chesbro:

When posed with a question regarding an event a good reporter asks the following questions:

1) **Who** is conducting this aerial Jet Spraying experiment over the skies of Mendocino, Lake Sonoma, Marin, San Francisco and Humboldt Counties? Who is paying for these experiments? Who authorized these experiments?

2) **What** are these experiments for and what chemicals are being introduced into the air that may impact on our health, water supplies, **trees**, food supplies and the living environment around us?

3) **When** are these experiments taking place?

4) **Where** are these experiments taking place?

5) **Why** wasn't the public informed that these experiments were taking place? Just who consented to have these experiments take place over our respective counties?

On March 27, 2002, a friend had me look at the sky that day during what he called a "blitz" period in Ukiah – the sky looked very similar to the video that was taken over Marin County in the past year. What was seen in the skies that day led to my taking hundreds of pictures since that date to document, on an almost daily basis what has been happening over the Pacific Ocean and in the skies above us here in Northern California.

It is also evident, from speaking with friends both in California and other states, that what is happening here is also happening in other parts of California and in other states as well. The California State Air Quality Department has stated that this air quality issue is not in their jurisdiction.

It is my belief, from the hundreds of pictures I have taken that there are various experiments being conducted in our county and other areas. The resulting air pollution, I believe, is a violation of the California 2002 Penal Code, Section 375 (a), (b), (c) and (d). I have enclosed a copy of this section of the Penal Code. It reads in part: "...it shall be unlawful to ...release, discharge or expose...in any place of public assemblage, any liquid, gaseous or solid substance or matter of any kind which is injurious to person or property, or is nauseous, sickening, irritating, or offensive to any of the senses..." It is also unlawful to manufacture or prepare said substances and those violating these laws are guilty of a felony...(c) For purposes of this section, Hazardous substance" means either of the following:

California Penal Codes states under Section 374.8: "...(b) Any person who knowingly causes any hazardous substance to be deposited into or upon any road, street, highway, alley, or railroad right-of-way, or upon the land of another, without the permission of the owner, or into the waters of this state is punishable by imprisonment in the county jail for not more than one year or by imprisonment in the state prison...or by fine...(1) Any material that, because of quantity, concentration, or physical or chemical characteristic, poses a significant present or potential hazard to

1

Figure 21. Peterson's June 28, 2002 geoengineering letter emailed to California Senator Wes Chesbro. SOURCE: Box 4, Rosalind Peterson archives.

Perhaps her most prominent piece of public writing appeared in "Warrior For Clean Skies," which extensively documented Peterson's "Our Dead And Dying Trees" editorial, co-written with biologist Allan Buckman. Perhaps Peterson's most widely publicized written testament to anti-geoengineering, and still available on the Internet, the editorial deserves repeating here, as it is the single best example of Peterson as a public writer appealing to the world, asking questions, demanding research, championing action on behalf of a greater understanding of and reckoning

with the impact of geoengineering – weather and climate modification programs – on the planet's health and well-being.

Asked by Peterson in her July 2007 NewsWithViews.com feature article: "What is the common dominator for deteriorating tree health in so many areas of the United States? Air pollution, white haze, climate change, increasing UV radiation, higher humidity caused persistent jet contrails, jet fuel emissions, lack of sunlight from persistent aging contrails or climate change produced by persistent jet contrails? There are over 50+ weather modification programs ongoing, according to NOAA records, in the United States. What impact does this chemical manipulation of our weather have on the regional micro-climates that are needed for tree, plant, and agricultural crop health?"

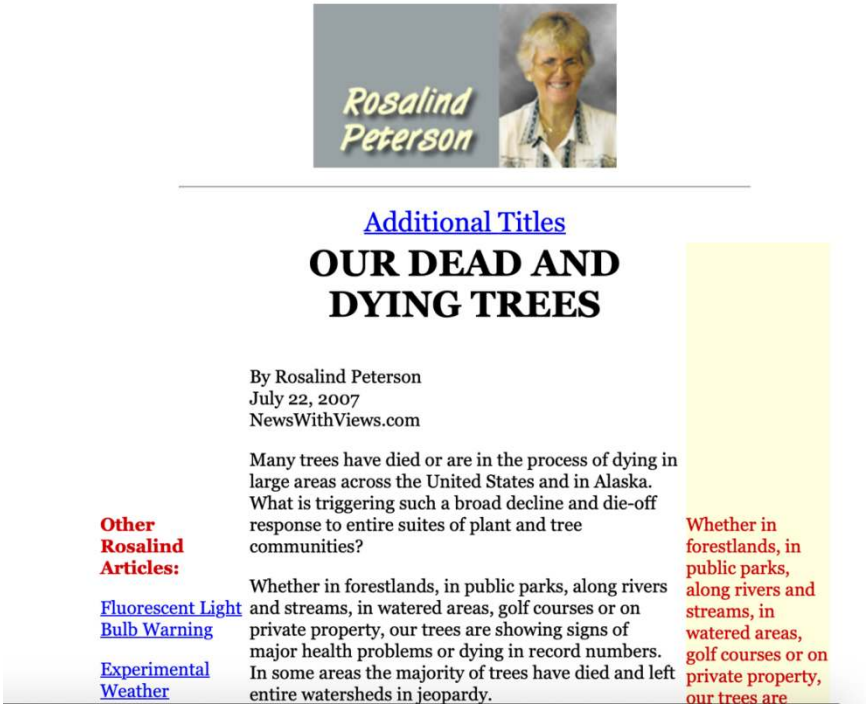


Figure 22. Peterson's heavily circulated "Our Dead and Dying Trees" feature of July 2007, written in collaboration with Allan Buckman, and expanding on Charles Little's pioneering 1995 book *The Dying Of The Trees.* SOURCE: NewsWithViews.com.

Peterson went on to argue that weather and climate modification programs -geoengineering - proved environmentally detrimental to water quality, forest health, and the viability of a variety of living creatures, including pollinators like honeybees, a central conclusion which Peterson shared with a global audience over the next decade.

Peterson, quoting Buckman's conclusions, wrote: "*In the past, I have seen localized die-off of plant communities from a myriad of sources, and there tends to be a trend toward one to several problems at a time, and it varies year to year, but I have never seen the present condition of widespread impact to almost all species in all areas from a wide assortment of insects, fungus, molds, mildews, bacteria and viruses. I have seen areas where every tree and shrub in a drainage area has some form of health problem.*" In her feature article, Peterson also noted the widespread decline in a variety of

California's tree species, including the iconic redwoods, among the world's oldest and most resilient of trees. Referencing Buckman, Peterson predicted that "*we are in for big changes, and I think we should be on this like a duck on a June bug - I think this is as serious as it gets, and we need to act quickly to document the facts and take corrective actions*."

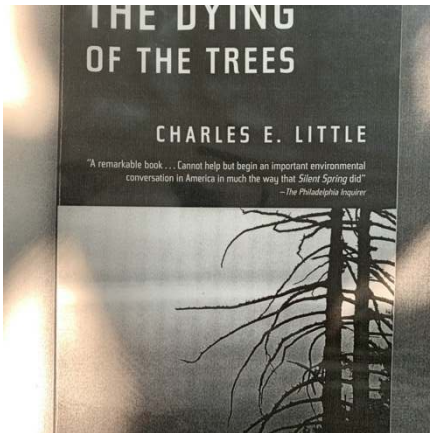


Figure 23. Peterson's copy of Charles Little's 1995 book *The Dying Of The Trees.* SOURCE: Box 13, Rosalind Peterson archives.

Documenting the facts and promoting corrective actions is exactly what Peterson had been doing with California Skywatch and the Agricultural Defense Coalition for five years. Peterson noted in her NewsWithViews feature article: "We elected our representatives to protect the public interest and our commons, whether air, water, soil, trees, plants, agriculture or atmosphere, from being used for personal gain and questionable private, university, and military experiments. Our elected officials must protect our natural resources and the public health first - right now our elected officials appear to be protecting political corporate interests, while accepting contributions from their paid lobbyists, over the rights of American citizens."

And then, in an impassioned final paragraph, Peterson ended with this call to arms (CAPS are hers): "IT IS TIME TO FIND OUT WHY OUR TREES ARE STRESSED AND UNABLE TO RESIST PESTS AND PATHOGENS! CONTACT YOUR LOCAL, STATE AND FEDERAL REPRESENTATIVES. ASK THEM TO AUTHORIZE AIR, TREE, WATER, AND SOIL TESTING. We need answers to the questions-not just be told to wait, watch our trees die and then be cut or burned down by forest fires" [7].

SPEAKING IN DEFENSE OF THE PLANET: PETERSON AS PUBLIC SPEAKER

The arrival of the 21st century's Internet 2.0 - the personal and participatory web - made possible the global sharing of information via digital channels like never before in human history. Now running California Skywatch and the Agricultural Defense Coalition, Rosalind Peterson stepped onto a larger global stage as one of the first citizen scientists to directly address the world about geoengineering.

As a public speaker, Peterson debuted her ideas at a high profile 2007 United Nations conference entitled "Climate change - How it Impacts us all." The three-day event, held at the UN's New York City world headquarters to celebrate its 60th anniversary, brought together 2,600 delegates from 80 countries representing a wide cross-section of the world's Non-Governmental Organizations (NGOs).

We have yet to locate an audio or video transcript of Peterson's talk. The UN conference guide notes that:

> *Rosalind's presentation was on climate change associated with persistent jet contrails and the man-made clouds they produce, how jet contrails exacerbate global warming and change our climate. She addressed such topics as atmospheric heating and testing programs and experimental weather modification programs and how they impact agriculture and climate. Rosalind also addressed global dimming produced by persistent jet contrails. (See Figure 24).*

Peterson went on to give a half dozen public talks on geoengineering featured on the Internet, including a second UN address in 2013. Listening to Peterson speak, one realizes two things right away: 1) Peterson is perhaps a more compelling writer than a speaker, but 2) Peterson's unique visual presence - approachable, no-nonsense, and (at the risk of using this adjective) matronly - makes her remarks compelling, at least to many who have viewed her. Back at the turn of the century, geoengineering was often dismissively called a "conspiracy theory," and the world of Internet "conspiracy theory" then, as now, seems a predominantly a male one. (Note - as a trained research scientist, Peterson detested the phrase "conspiracy theory," according to her longtime colleague Deborah Whitman.)

Watching Peterson calmly deliver remarks discussing global dimming, atmospheric heating, "persistent jet contrails" and other geoengineering concepts, it is clear that her public speaking did much to raise public awareness of weather and climate modification in the mind of the Internet-viewing global public.

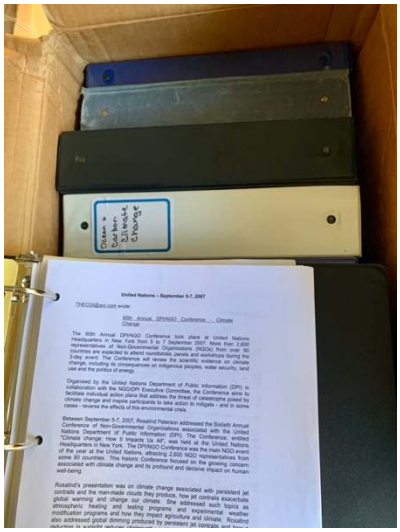


Figure 24. Peterson's 2007 conference copy of the United Nations "Climate change: How It Impacts Us All" international meeting.
SOURCE: Box 37, Rosalind Peterson archives.

Plumbing the Peterson archive unearthed a second major talk, a 2008 "Sky Lines" interview that no longer seems to be publicly available on the Internet, and worth quoting at length.

In her Sky Lines address, Peterson sketches out what soon became familiar themes for many of her later geoengineering talks.

> *What is happening in the atmosphere above us is detrimental to all of us, man-made clouds which NASA talks about being made by persistent jet contrails are exacerbating global warming. They're also covering the planet in cirrus cloud cover which changes our climate and also reduces the amount of direct sunlight hitting the earth. When the direct sunlight hitting the earth is reduced, we get more molds, mildews. I believe that persistent jet contrails that last for 20 hours or more; just one and that can persist and cover our skies and white haze or man-made clouds is very detrimental to the environment we live in.*

(Note: we hope to make transcripts of all of Peterson's public speeches available as part of our archiving project in the months ahead.)

Peterson continues:

> *They're doing [an] experiment on the atmosphere above us and this experiment, and synergetic effects of several at the same time are also having an effect because the chemicals they use for these experiments like barium, aluminum, strontium, and other toxic chemicals are beginning to find their way down to earth. And what they do is they [these chemicals] cover our soils, and they get into our drinking water supplies. California tests from the drinking water division, state of California, state Department of Health, are showing now these unusual spikes are in drinking water supplies from these chemicals, and it is [happening] statewide. We are also finding that other states*

> *across the United States are also showing these spikes. One state is Arizona where we have gotten the public records for water test results [and we are] finding spikes in Arizona as well.*

Peterson's first major extended geoengineering public speech on YouTube (launched in 2005, and purchased by Google in 2006) – the 2010 Geoengineering Coverup – was originally shared on the Prison Planet channel, and is still available in seven shorter videos on a YouTube channel called "kenjams."

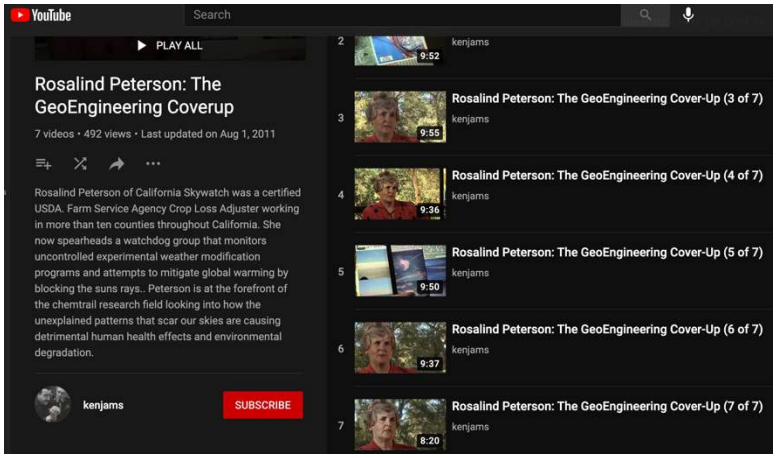


Figure 25. Screen shot of Peterson's 2010 "The GeoEngineering Coverup" YouTube interview.
SOURCE: https://www.youtube.com/playlist?list=PLBFB788FB3A11C321

The video, worth watching from start to finish, illustrates Peterson's emerging style as a public speaker, honed by years of writing and testimony in local government hearings. Here is an excerpt of Peterson's remarks, delivered in calm and reasoned tones, accompanied by maps and other helpful visual aids:

> *Persistent jet contrails that persist and stay in the environment and stay in the environment for up to 20 hours, this is like geoengineering; it means that you're artificially man-made in some way changing our environment, you're adding particulates, you're adding something to the atmosphere and it's more deliberate than not, but, you can add in, you can add particles and chemicals, weather modification is geoengineering, making it rain somewhere where it normally wouldn't.*

Notice, Peterson's clarifying of the "persistent jet contrails" phrase as being "like" geoengineering. Below, she flags geoengineering as a "solution" to the program of "climate change" in the emerging UN/IPCC explanation blaming "anthropogenic CO2 emissions" as the primary driver for what was then called "global warming."

> *So, we have all of these things where we talk about geoengineering. The interesting part of geoengineering is that is now being proposed as a way to put particulates in the atmosphere so that we can stop the direct sunlight from reaching the earth. It means that they could add particles, iron particles to the ocean, that's another form of*

> *geoengineering. In other words, when you have jets that change the climate, that's another form of man-made geoengineering.*
>
> *So, geoengineering means something that you are going to do in the atmosphere that would not normally be happening on any normal type of basis. In other words, a volcano would be normal, the particulates coming up from a volcano, for example, would be a normal phenomenon and then we would take whatever consequences come from that.*

A third example of Peterson's public talks on geoengineering came in 2011 on a platform called WVPRadio with a speech she gave on geoengineering and what she called "weather hedge funds." As observed earlier, Peterson proved one of the first scientists to tie weather derivatives to strategic geoengineering initiatives. Here is just a short excerpt from her talk:

> *We can now bet on the weather through the Chicago Mercantile Exchange. Starting a couple of years ago, they decided that you could bet on the weather in your locality or your area, and you could bet whether it was going to rain or snow or be good weather and you can bet on exact produce, and whether there's going to be a good crop or a bad crop.*

And then Peterson shares her "ah ha" moment, below.

> *The Chicago Mercantile Exchange started to allow betting on the weather in future's markets. Now here is the rub. Just in the last three months, the Chicago Mercantile Exchange says "well, you can also bet on the amount of rain or the amount of snow that will fall in a certain area," and I thought to myself that there is no possible way that anybody could have insider trading on the weather. However, every weather modification company that is modifying the weather in a certain area knows whether they are going to enhance the rain, enhance the snowfall, create drought, dissipate clouds. Any private company, any private corporation, now can hire a company for seventy thousand dollars, have them increase the snowpack in some mountain somewhere - and that's on the Chicago Exchange [9].*

A fourth example of Peterson's public speaking activities, a 2011 Commonwealth Club panel discussion entitled "Man-Made Climate Change In The Skies," also featured her "Dying Of The Trees" colleague, biologist Allan Buckmann. Note link to audio file in the references [10].

And finally, perhaps Peterson's most well-known public talk on geoengineering – her 2013 address in front of the United Nations. Owlishly bespectacled, dressed in a scarf, dark blouse, and colorful vest, with remarks delivered from behind her name tag, Peterson spoke for thirty minutes on geoengineering's impact on the planet and all living things. Here are a few highlights:

> *One of the things that is affected by climate change is agriculture, but some of what we are seeing is man-made, but man-made in a different way than you may guess. Weather modifications programs, experimental ones done by companies, done by the United States government, done by states across the United States, are underway; there are more than 50 such operations right across the United States. All of these*

> *impact agriculture because they change microclimates needed for agriculture to survive; none of the programs that I know of today, and this is all public record, available at any time with oversight - agricultural or public oversight.*

Officially identified at the UN conference as the founder of the Agricultural Defense Coalition, Peterson then focused her remarks on food production.

> *These programs impact agriculture and there are programs around the world, international corporations are modifying our weather all the time and they are modifying in ways that cover thousands and thousands of square miles. Most of it is chemically altered, so what happens is that we are putting chemicals, ground base chemicals that are shot into the air, or chemicals that are coming from the airplanes that change or modify our weather. So, one of the things that I am concerned about that we need to address in the future is how these programs are impacting microclimates needed for crops to survive and needed for pollination. [11]*

One wonders how many more people Peterson might have reached with her public speaking activities as the Internet matured – suffice to say, her talks are still being watched and shared online as a new generation of interested citizens discover geoengineering - the world's most pressing but underreported environmental issue.

PREVENTING "VIOLENCE AGAINST THE EARTH": PETERSON AS PUBLICIST/ACTIVIST

As noted in "Warrior For Clean Skies," Peterson's final act as a citizen scientist may perhaps be her greatest legacy. Working with Rhode Island (RI) legislator Justin Price, Peterson co-authored a March 2017 bill introduced into the RI state legislature's House Environment and Natural Resources Committee (RIH6011) that called for providing public oversight and strong regulatory prohibition to include fines and penalties for geoengineering, weather modification, cloud seeding, and other forms of what she termed "*violence against the Earth*."

One of the world's first anti-geoengineering bills ever proposed, the Rhode Island legislation defined geoengineering as "*the intentional manipulation of the environment, involving nuclear, biological, chemical, electromagnetic and/or other physical-agent activities that effect changes to earth's atmosphere and/or surface*," and indicated the RI legislature's intent "*to regulate all geoengineering activities as further set forth by the terms and provisions of this chapter.*" [12]

Peterson's goal was to draft a document that could be suitably adapted for other states and nations to protect agriculture, health, and all life from the harmful environmental impacts of geoengineering. While the bill did not pass, Peterson succeeded in providing a legislative template for the world that continues to serve as a model for environmental activists everywhere who have the courage to challenge covert geoengineering schemes. [13]

Perhaps Peterson's greatest legacy is her ability cultivate fellow citizen scientists to research and publicize geoengineering, as attested by several of her colleagues who worked with her for years. **"**Regarding Rosalind's expertise on geoengineering - she was the 'go to' person," explained long-time colleague Shoshanna Alison. "We talked via email daily, sending her our research, and

Rosalind would let you know if what you were about to post was real or questionable – she was an incredible inspiration" [14].

CONCLUSIONS

It is clear from an overview of her archives that, as a citizen scientist, Rosalind Peterson adopted an interdisciplinary approach to exposing ongoing geoengineering efforts, combining scientific data collection and research, publishing, public speaking, and political advocacy to educate the world about the many negative environmental consequences of clandestine geoengineering. With more archival research, we soon will have a more detailed appreciation of Peterson's efforts to bring geoengineering to the larger world, as measured by the many letters she wrote, the number of public hearings she attended, the exhibit tables she hosted, the petitions she signed and deployed, the talks she gave, and the emails she sent.

One final story: the first box of Peterson's archival materials unearthed in a Sacramento storage facility in March 2020 contained a small pile of Fed Ex mailers. The top one on the pile was addressed to "President Jimmy Carter," and contained Peterson's signature blue folder affixed with a label bearing her favorite question - "How do you like your skies - Natural or Manmade?", along with a small packet of information for the Carter Center providing insights into geoengineering - weather and climate modification programs - and an invitation for dialogue.

It was this Fed Ex package, Figure 26, poised and ready to be mailed, that convinced me that Peterson's archives must be shared with the global public. Now, close to one year later, I am even more convinced of the importance of Peterson's ongoing decades-long work to actively call public attention to the geoengineering phenomenon.

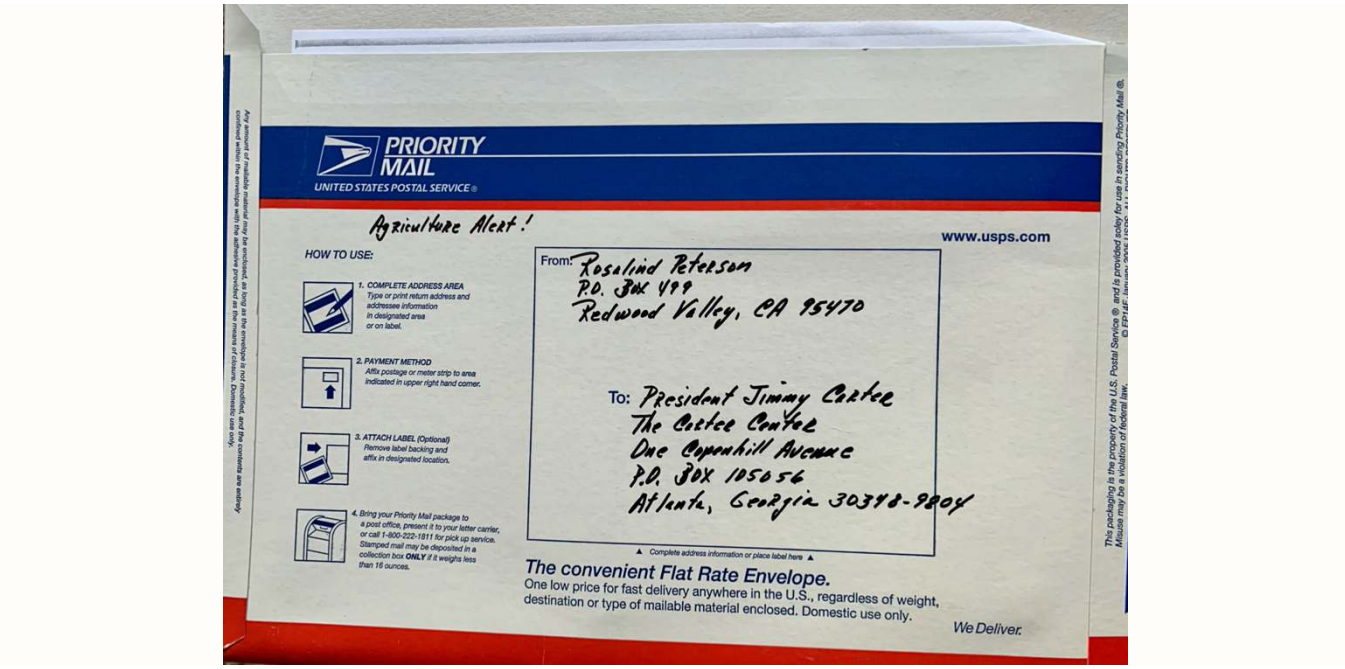


Figure 26. Peterson's unmailed Fed Ex package to the Carter Center. SOURCE: Box 1, Rosalind Peterson archives.

May Rosalind Peterson's interdisciplinary approach and tenacious commitment to "prevent violence against the earth" - to observe, photograph, read, research, measure, write, speak, and publicize - the environmental reality of our geoengineering age, inspire all of us who care about our planet to become more involved in its defense in the years to come.

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