

# An Indication of Intentional Efforts to Cause Global Warming and Glacier Melting

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## Author's contribution

The sole author designed, analyzed, interpreted and prepared the manuscript.

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## ABSTRACT

**Aims:** On or about February 14, 2016, an oily-ashy substance was accidentally released by an aircraft and fell on seven residences and vehicles in Harrison Township, Michigan (USA). The aims of this investigation are to analyze the "air-drop material" and from the results obtained to draw inferences as to the intended purpose of the material.

**Methodology:** Inductively coupled plasma mass spectroscopy (ICP-MS) and scanning electron microscopy (SEM) with energy dispersive X-ray (EDX) analysis were used to analyze the "air-drop material".

**Results:** The "air-drop material" was found to consist of an assemblage of plant material mixed with coal fly ash and salt. The splatter pattern on vehicles, ground, and rooftops resembles cryoconite holes observed on ablating glaciers worldwide. The "air-drop material" resembles to some extent natural cryoconite, and appears to be modeled after that substance with coal fly ash imparting the dark gray color that absorbs sunlight, melts glacial ice, and contributes to global warming.

**Conclusions:** The results of this investigation provide evidence that is indicative of a deliberate effort to hasten the melting of glaciers and thereby hasten global warming. If so, this investigation reinforces the net effect of daily particulate aerosol spraying in the troposphere observed worldwide. Elsewhere the author has provided evidence that coal fly ash is the primary material

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being employed in such spraying whose net effect is to enhance global warming. Scientists worldwide should call for, and indeed demand, a full and open investigation into these covert geoengineering activities whose potential impacts on Earth's climate system, the integrity of Earth's biota, and on human health may prove to be extremely hazardous.

*Keywords: Geoengineering; global warming; cryoconite; cryoconite holes; glacier melting; Harrison Township.*

## 1. INTRODUCTION

Life on Earth exists in a complex and fragile state of mutually-dependent dynamic equilibrium between and among biota and the physical environment. Any perturbation of that equilibrium is apt to upset this delicate balance with potentially devastating consequences for numerous species, including humans.

Since the beginning of the industrial age, humans have inadvertently and materially altered our planet. Early on the effects were localized, as exemplified by the sooty and later smog conditions in cities worldwide, and by regional deforestations around the globe. As we progressed technologically our capability for environmental destruction kept growing [1]. In many cities the air is now unsafe to breathe, plastic wastes choke our oceans, airliners pollute the atmosphere with combustion products from jet fuel and its additives, land surfaces are increasingly paved over, forests continue to be eliminated, and massive fossil fuel burning produces unnatural heat and exhaust gases. This list is not exhaustive. Collectively, we humans have not yet learned to live in harmony with our planet.

In addition to these unintended assaults on our planet, there is an intentional one, referred to as geoengineering, which is potentially more harmful than all other assaults. Geoengineering may be defined as "the deliberate large-scale manipulation of the planetary environment including weather and climate manipulation." The basis for geoengineering stems from cloud seeding experiments in 1946-47. It was discovered that adding dry ice (frozen CO<sub>2</sub>) or silver iodide to clouds could aid in the nucleation of rain or snow. Development of the technology to control weather for use as a weapon of war began with that discovery [2,3] and has proceeded in secret ever since. From 1967 to 1972 Operation Popeye involved cloud seeding with the intention of extending the monsoon season over the Ho Chi Minh Trail to impede transport of troops and supplies during the

Vietnam War [3,4]. But causing clouds to dump rain or snow more-or-less at will was just the first step. The military wanted to fully control the weather as a weapon of war, as was later described in the 1996 U.S. Air Force document: "Weather as a Force Multiplier: Owning the Weather in 2025 [5]".

In retrospect that document should have been cause for alarm. Since the end of World War II, the U.S. military has been single-minded in its scientific pursuits with no sense of responsibility for the wellbeing of either civilian populations or the environment. For example, in pursuit of its nuclear warfare technology, atmospheric detonations of more than one hundred nuclear devices were generally undertaken without regard for the health of unsuspecting residents downwind [6]; without regard for the environment, as evidenced by exploding a fission bomb in the Van Allen belt; and, on a more personal scale by telling pregnant women they were receiving vitamins when instead they were being given radioactive iron; or by injecting newborn infants with radioactive iodine-131 [6-9].

After learning how to make clouds produce rain or snow more-or-less on demand, the next technological step was to learn how to inhibit rainfall to bring drought and starvation to a perceived enemy nation. For at least thirty years experiments were conducted in the lower atmosphere (troposphere) that involved jets spraying undisclosed substances which left particulate trails across the sky [10] that were witnessed by millions (Fig. 1). These trails at first superficially resemble contrails, which are ice crystals formed from aircraft exhaust. Contrails are formed, however, only in very humid environments, with temperatures low enough to sustain the saturation vapor pressure with respect to ice, and with sufficient moisture content in the exhaust gases [11,12]. Contrails rapidly become invisible by evaporation whereas particulate trails spread out to sometimes briefly form artificial cirrus-like clouds before further spreading to form a white haze in the sky.



**Fig. 1. Photographs of geoengineering particulate matter emplaced in the troposphere above the United States of America, France, England and Egypt. Typically, particulate trails laid by tanker jets soon diffuse, becoming artificial clouds, which further diffuse into a white haze in the sky, sometimes so heavy that the sky appears overcast, sometimes with a brownish hue. Photos courtesy of Patrick Roddie and Deborah Whitman. Egypt photo by the author**

The principle involved in inhibiting rain is simple and is well known from pollution studies. Micron and sub-micron particulate-pollution matter, when sprayed into a region where clouds form, keeps moisture droplets from coalescing to form drops sufficiently heavy to fall as rain or snow. Eventually, the moisture laden clouds must release their aqueous burden potentially causing storms and downpours. The military and covert-activity implications are clear: Spray particulate matter into the air above a perceived enemy, destroy the agricultural economy, decimate livestock and cause hardship and starvation [13].

If tropospheric particulate spraying activities were solely for developing that military technology, the experiments would be limited temporally and geographically. But that is not what has been observed by millions of individuals throughout the

world [14-19]. In the last several years tropospheric particulate-matter spraying has become a near-daily activity over much of the world without official acknowledgement and without informed consent of those who breathe air that is contaminated with these tiny particles. Clearly, this is a secret program that is undertaken by diverse nations, including, but not limited to, the United States, Canada and other British Commonwealth nations, European Union countries, Japan, Russia, Brazil, South Korea, Egypt, and India. No official information is available to the public as to what governments/organizations are leading this aerial assault on our planet. There is no official information on its purpose, the substances being sprayed into the troposphere, the geophysical implications, or the public and environmental health consequences. In principle the geoscience community has the instrumentation and understanding to ascertain answers to some of these questions. Instead, academic scientists collectively have turned a blind eye, remaining silent or chanting the United Nations' Intergovernmental Panel on Climate Change (IPCC) mantra that at some time in the future it may be necessary to put solar-blocking substances high into the stratosphere to counteract assumed global warming. Recently, a once prestigious scientific journal became party to deliberately deceiving the public about this aerial spraying [20].

I hold that scientists, because of their abilities and training, have the responsibility to benefit mankind and advance civilization [21]. I therefore chose to apply scientific methods to ascertain the nature of the main substance being sprayed into the troposphere [13,22,23] and discovered three independent lines of evidence that the tropospheric geoengineering particulate-pollution consists mainly of coal combustion fly ash. When coal is burned by electric-power utilities, the heavy ash settles and the "fly ash" goes up the smokestacks where in Western nations it is electrostatically trapped and sequestered as this ash-portion contains most of the toxic heavy metals that were incorporated in the coal. When sprayed into the troposphere, coal fly ash inhibits rain/snow fall, absorbs atmospheric moisture, enhances the electrical conductivity of atmospheric moisture, warms the atmosphere, and blocks radiation from the surface into space. When the coal fly ash with its typically dark gray color settles to Earth, it absorbs sunlight and changes the albedo of snow and ice which aids in its melting. In other words, in addition to

causing drought, when sprayed into the troposphere on a near-global, near-daily basis as at present, the aerosolized coal fly ash warms the planet, causing deliberate anthropogenic global warming of a different type than caused by greenhouse gases.

Jet aircraft that spray coal fly ash into the troposphere are part of a near-global covert program and operate from undisclosed airbases. On or about February 14, 2016, an aircraft presumably operating out of Selfridge Air National Guard Base in Michigan (USA) momentarily released a small portion of its payload which reportedly fell on residential properties in Harrison Township, Michigan (USA). On February 14, 2016, a resident of Harrison Township noticed a strange substance that had apparently fallen from a passing aircraft and that had landed on at least seven homes and several vehicles (Fig. 2). "It was an ash type of substance with a little bit of an oily consistency to it," Harrison Township Fire Department Chief Michael Lopez told ABC News [24]. "It appears to have fallen straight down," he added, noting that the substance was only found on the roofs of cars and homes, and not splattered across the sides.



**Fig. 2. Splatter pattern of air-drop material evident on vehicles and residences**

Suspecting that this was an accidental release from a covert geoeengineering activity, I obtained

samples of the material from one of the residents whose property was splattered from above (Fig. 2) and had the material analyzed. The material was also sampled and analyzed by officials from the Michigan Department of Environmental Quality. Here I report the results of those analyses, which provide evidence of a deliberate operation to melt ice and snow, which is consistent with the hypothesis that aerosolized coal fly ash is being used to deliberately enhance global warming [13,22,23].

## 2. METHODOLOGY

Samples of the "air-drop material" were collected by Harrison Township, Michigan (USA) resident Paul Schlutow on his property. He generously donated sample material to the author for analyses. Aliquots of the material were sent to Northern Lake Service, Inc.'s Analytical Laboratory and Environmental Services and to Basic Laboratory, Inc. for Inductively Coupled Plasma Mass Spectroscopy (ICP-MS) Analyses. An aliquot was sent to RJ Lee Group, Inc. for scanning electron microscopy (SEM) with energy dispersive X-ray (EDX) analysis.

## 3. RESULTS AND DISCUSSION

Fig. 3 shows low magnification images of the air-drop material which the Michigan Department of Environmental Quality noted from microscopic examination "... consists of a mixture of particles in dark clumps ... that morphologically resembles plant material, including leaves, seeds and fruit skins make up the majority of the sample...." Clearly, the air-drop material is not mainly coal combustion fly ash, but, as evidence indicates, coal fly ash is a commonly used geoeengineering material. When coal fly ash falls to Earth, its typically dark gray color absorbs sunlight and enhances global warming. So the question naturally arose as to whether dark gray colored air-drop material contains coal fly ash. To answer this question three samples of air-drop material were analyzed independently by ICP-MS, including one sample of which was collected and analyzed by the Michigan Department of Environmental Quality. The ICP-MS data, expressed as elemental mass ratios, are compared in Fig. 4 to corresponding mass ratios for the ranges of published coal fly ash analyses of 23 European coal fly ash samples [25] and 12 American coal fly ash samples [26]. For further comparison, ICP-MS ratio data also are shown for four samples of dust collected on high-efficiency air filters operated outdoors for three

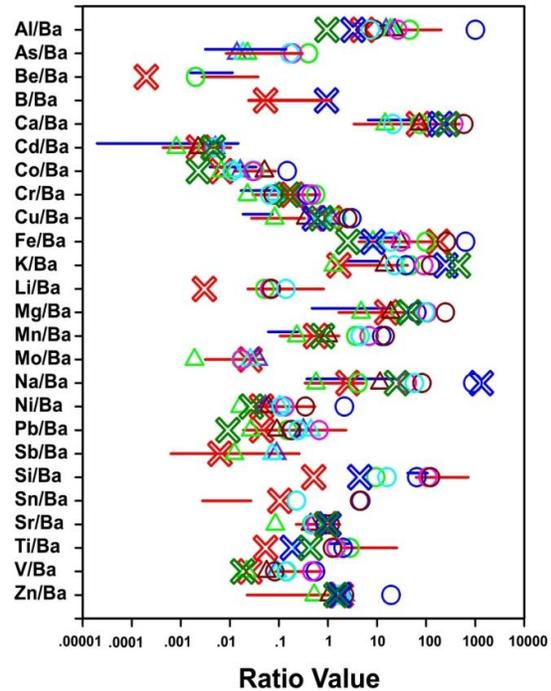
months in California (USA) and Arizona (USA) in places far removed from industrial coal-burning facilities [13,23]. ICP-MS data, expressed as mass ratios, are also shown for five fiber samples collected in Laona, Wisconsin (USA) on grass after snow had melted (Fig. 5). White fibrous material, sometimes observed falling to Earth during tropospheric aerosol spraying or found afterward [27-30] is believed to be an unintended by-product formed when the coal fly ash feed-material with its additives encounters the jet combustion environment where melting and elongation occur.



**Fig. 3. Low magnification images of air-drop material**

Nothing should be inferred from the observation in Fig. 4 that not all ratios are shown for each measured sample; that is primarily the consequence of different requested analyses, and secondarily the result of different detection limits of the laboratories involved. Among the results shown there is variation, but that is to be expected. Elemental variations are expected as coal from different sources incorporates different relative amounts of trace elements. Elemental variations in coal fly ash may also arise from different coal-burner dynamics. Further, elemental variations, at least in the fiber data, may arise from the unintended fiber production mechanism. Statistical treatment of the measured ratio comparisons is not appropriate

as the comparison is not being made to one single related data population, but to a group of independent sets of potentially variable populations. Nevertheless, the preponderance of agreements over a large number of element ratios is strong evidence that coal fly ash is a component of the air-drop material as well as of the filter-dust and fibers.



**Fig. 4. Element-ratios determined for air-drop material samples are indicated by X's: Green by the Michigan Department of Environmental Quality, red by Northern Lake Service, and blue by Basic Laboratory. For comparison: Red lines and blue lines, respectively, are the measured element-ratio ranges of European [25] and American [26] coal fly ash samples, circles are element-ratios of samples of fibers (Fig. 5) found on grass as snow melted in Laona, Wisconsin (USA) on March 19, 2015, and triangles are element-ratios determined on dust collected on high-efficiency air filters operated outdoors for three month periods [13,23]**

Figs. 6-8 are scanning electron microscope (SEM) images of a sample of air-drop material. The white rectangle shown on each image calls out the area where the EDX spectrum was determined. The numerical values of the measured elements are collected in Table 1.



**Fig. 5. Fibers believed to be formed during tropospheric geoengineering. Upper: Fibers observed on grass as snow melted and sampled for analyses (photo courtesy of Robert West). Lower: Typical presentation of fibers, in this case caught on farm equipment in the village of Argujillo in the Castilla – León region of Spain (photo courtesy of Guardacielos – Skyguards)**

**Table 1. Collected EDX elemental composition for the areas selected in Figs. 6-8**

Element	Fig. 4		Fig. 5		Fig. 6	
	Wt. %	Atom %	Wt. %	Atom %	Wt. %	Atom %
C	52.21	67.02	46.83	60.53	91.68	94.22
O	19.64	18.93	26.08	25.31	6.64	5.12
Na	7.85	5.27	9.93	6.71	0.40	0.22
Mg	0.11	0.07	0.58	0.37	0.04	0.02
Al	0.69	0.39	0.00	0.00	0.01	0.00
Si	0.08	0.05	0.17	0.10	0.03	0.01
P	0.56	0.28	0.06	0.03	0.09	0.03
S	0.48	0.23	0.75	0.36	0.01	0.00
Cl	13.26	5.77	10.24	4.48	0.51	0.18
K	2.87	1.13	3.17	1.26	0.22	0.07
Ca	2.25	0.87	2.19	0.85	0.38	0.12
Total	100.00		100.00		100.00	

From inspection of the data shown in Figs. 6-8 and Table 1, it is clear that the air-drop material consists of processed plant material with the addition of some coal fly ash and some salt, which is indicated by the sodium and chlorine values shown in Table 1. Regrettably, no attempts were made to ascertain the nature of

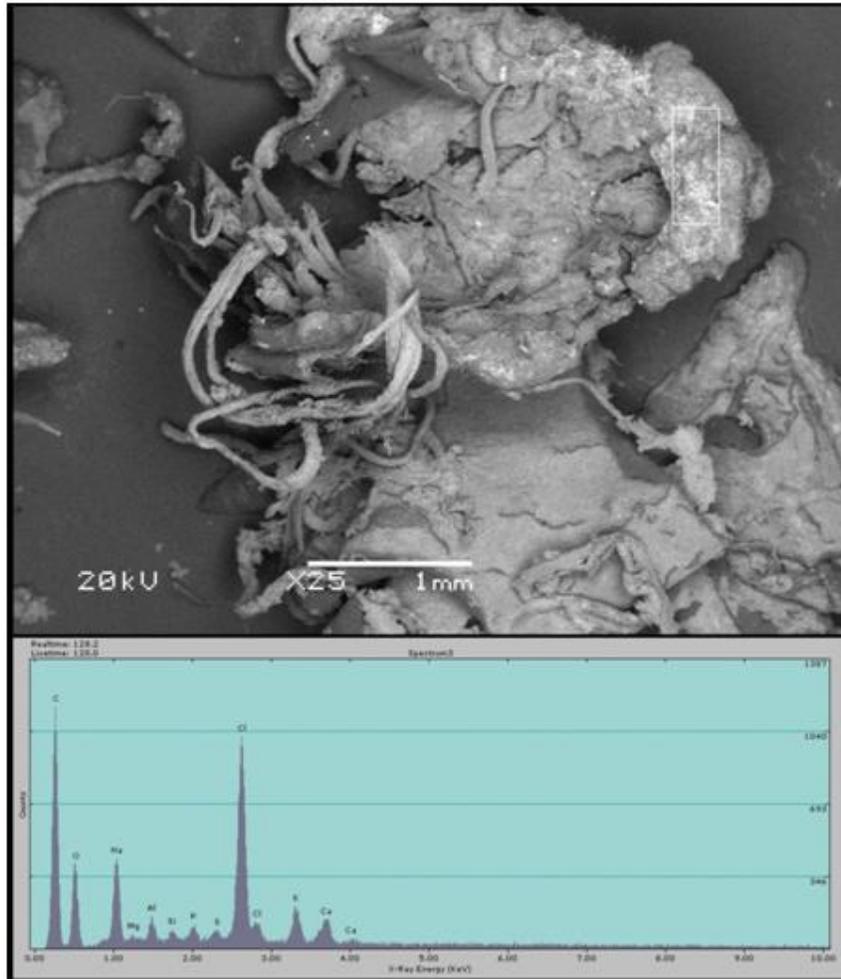
the oily binder originally observed on freshly fallen samples or to determine whether there were initially any viable living organisms present. Within the context of the data presented here, and the observed distribution pattern of air-drop material (Fig. 2), what is the purpose of the air-drop material that was accidentally released over

Harrison Township on or about February 14, 2016?

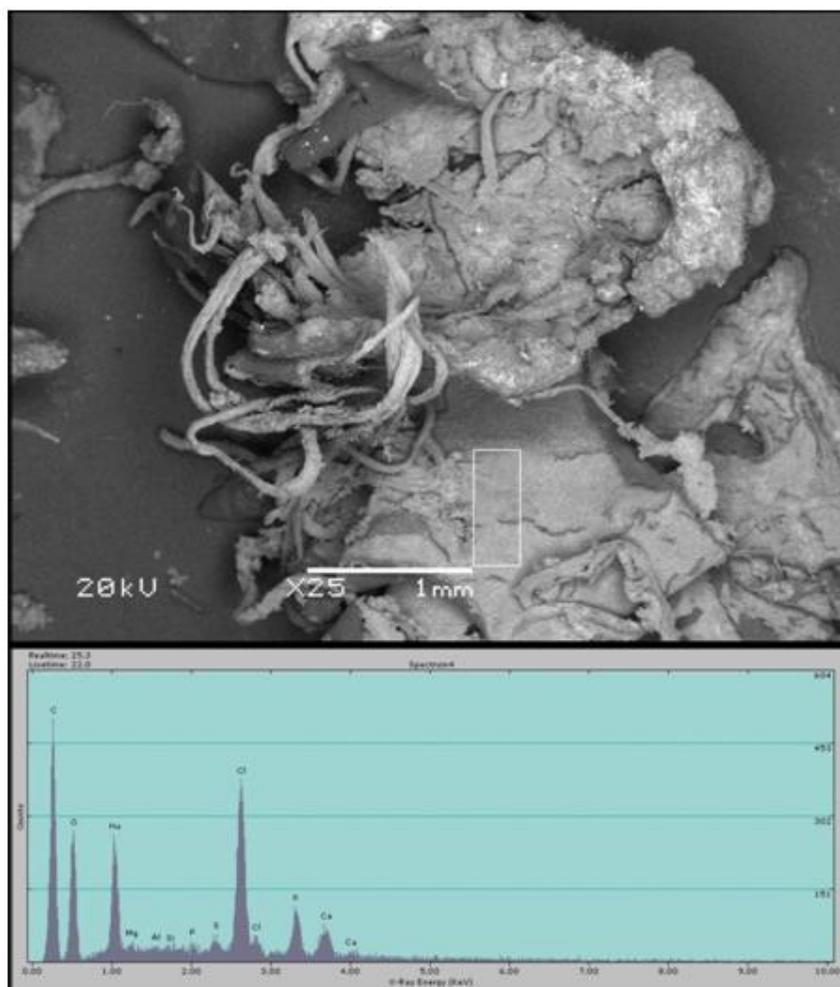
Patterns of quasi-circular holes, sometimes called “cryoconite holes” are observed on ablating glacier surfaces worldwide (Fig. 9); these holes resemble the distribution pattern of the air-drop material shown in Fig. 2. According to Cook et al. [31], “Cryoconite is granular sediment found on glacier surfaces comprising both mineral and biological material. Due to its dark colour, cryoconite efficiently absorbs solar radiation and ‘drills’ quasi-circular holes up to tens of centimetres deep into glacier ice surface.” Fig. 10 is a SEM image of cryoconite. Despite its being ten times higher in magnification, the Fig. 10 cryoconite image resembles the air-drop material SEM image shown in Fig. 6. The air-drop material, I posit, is synthetic cryoconite,

or proto-cryoconite, whose purpose is to melt glacial ice. That explanation is consistent with the now near-daily, near-global spraying of a particulate substance, evidenced as coal fly ash, into the troposphere which has the effect of causing global warming.

One can reasonably infer that the apparently accidental, momentary release of the air-drop material over Harrison Township is not a unique instance unto itself, but is indicative of part of a much larger systematic effort to melt glacial ice. Considerable time, effort and expense were required to develop the air-drop material that I refer to as synthetic cryoconite, or proto-cryoconite. Likewise, considerable time, effort and expense were required to develop and test the aircraft mechanism that disperses the material in a systematic and effective manner.



**Fig. 6. SEM photograph of a sample of air-drop material. The white rectangle calls out the area where the EDX spectrum was determined. Numerical EDX values are collected in Table 1**

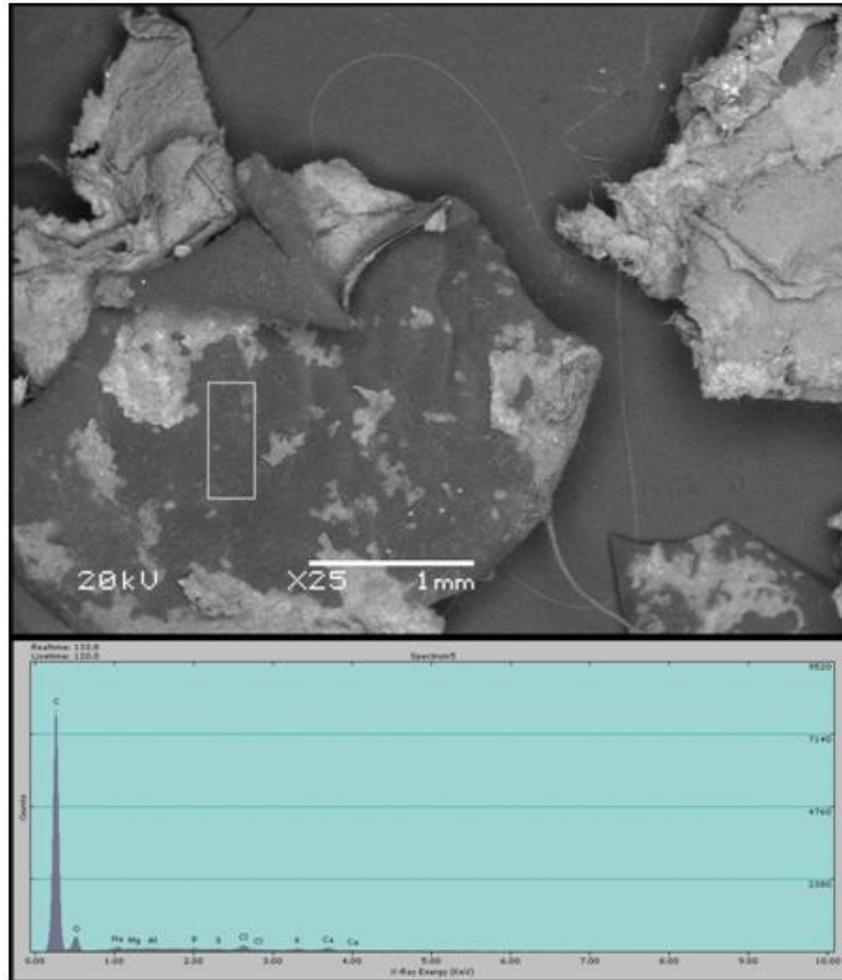


**Fig. 7. SEM photograph of the same sample of air-drop material shown in Fig. 6. The white rectangle calls out a different area where the EDX spectrum was determined. Numerical EDX values are collected in Table 1**

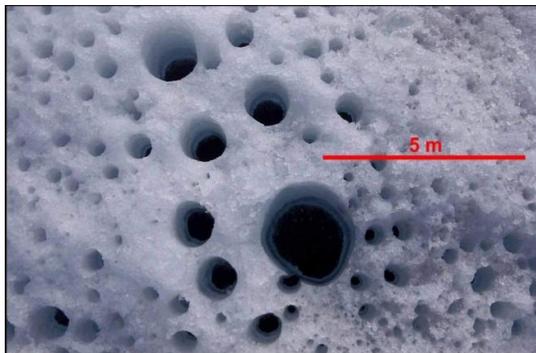
For at least fifteen years covert weather/climate modification activities have been taking place with ever-increasing scale and frequency that involve spraying pollutant particles into the troposphere. The scientific community has been grossly remiss in ignoring the now near-daily, near-global spraying of particulate-pollution matter into the troposphere which evidence indicates is coal fly ash, a substance containing toxins injurious to virtually all biota, including humans. Not only does the spraying contaminate the environment, but the aerial placement of this particulate-pollution causes global warming and alters weather patterns which can cause damage or injury to human health and even loss of life, disrupt food production, and create a pestilent-ridden unhealthy environment on a global scale.

Yet the consequences of this near-global weather/climate modification geoengineering activity have not been taken into account by any of the climate change models evaluated by the United Nations' Intergovernmental Panel on Climate Change (IPCC), a fact that calls into question not only the findings of that organization, but its moral authority as well.

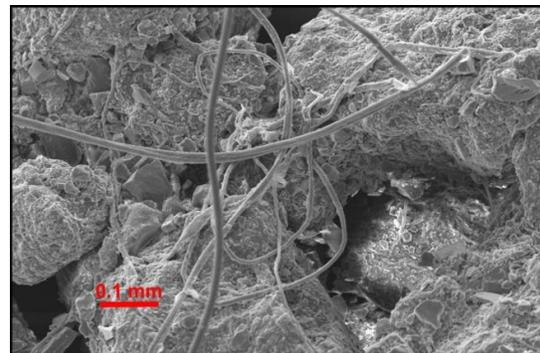
Based upon the evidence presented here, I posit, there is another covert geoengineering activity being practiced whose purpose appears to be to further enhance global warming by melting glacial ice. The coal fly ash component of the air-drop material further pollutes the environment with toxic heavy metals.



**Fig. 8. SEM photograph of a different sample of air-drop material. The white rectangle calls out the area where the EDX spectrum was determined. Numerical EDX values are collected in Table 1**



**Fig. 9. Cryoconite holes on the Greenland ice sheet (photo courtesy of Joseph Cook)**



**Fig. 10. SEM image of cryoconite from the Greenland Ice Sheet showing a network of cyanobacterial filaments binding mineral fragments (photo courtesy of Joseph Cook)**

#### 4. CONCLUSIONS

The results of this investigation provide evidence that is indicative of a deliberate effort to hasten the melting of glaciers, and thereby hasten global warming. Considerable time, effort and expense was required to develop the air-drop material, that I refer to as synthetic cryoconite, or proto-cryoconite, and to develop and test the technology to disperse that material from the air in a systematic and effective manner; consequently, it seems unlikely that this was simply a local operation. If so, this investigation reinforces the presumed intent of daily aerosol particulate spraying in the troposphere, observed worldwide, which has the consequence of causing global warming. Elsewhere the author has provided evidence that coal fly ash is the primary material being employed in such spraying whose net effect is to enhance global warming. Interestingly, one component of the air-drop material, inferred here from analytical results, is coal fly ash. Scientists who study glaciers should be mindful of the evidence presented here, and should look for instances where such matter, referred to as synthetic cryoconite, or proto-cryoconite, might have been dropped.

Scientists worldwide should call for, and indeed demand, a full and open investigation into these covert geoengineering activities whose potential impacts on Earth's climate system, the integrity of Earth's biota, and on human health may prove to be extremely hazardous.

#### COMPETING INTERESTS

Author has declared that no competing interests exist.

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