



***BIGELOW AEROSPACE  
ADVANCED SPACE STUDIES®***

# **March Report**

**April 10, 2009**

# **March**

# **2009 Report**

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**Bigelow Aerospace Advanced**

**Space Studies**

**(aka) BAASS**

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## PREFACE

This Progress report summarizes BAASS activities and progress for the period March 1-March 31, 2009.

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## **Progress on Staff Recruitment**

- Between March 1-31, 2009 in response to job advertisements in multiple on-line locations, BAASS received a total of 526 resumes.
- The first level of screening (removal of applications on the basis of too frequent job changes, those obviously inexperienced to work at BAASS, non-US citizens etc) was conducted on all resumes.
- More than four dozen phone and face-to-face interviews were conducted during the month of February.
- As a result of intensive interviewing and the transfer of some engineers from Bigelow Aerospace to BAASS, as of March 31, 2009 BAASS has thirty three full time employees and seven part time employees in addition to the administrator and deputy administrator (see table on page 4 below). Fulltime BAASS employees now include senior investigative personnel (backgrounds in law enforcement and AFOSI), engineers (specializing in electrical, software and astronautics), scientists (with expertise in physics and biology) as well as support personnel and security guards.

**BAASS**  
**Employee List**

|                                 |                           |                                                                             |                           |
|---------------------------------|---------------------------|-----------------------------------------------------------------------------|---------------------------|
| AAP Person 4                    |                           | Administrator                                                               |                           |
| AAP Person 7                    |                           | Deputy Administrator                                                        |                           |
| <b>Fulltime BAASS Employees</b> |                           | <b>Significant Part-time BAASS Employees</b>                                |                           |
| AAP Person 8                    | Senior Analyst level V    | AAP Person 95                                                               | Principal Engineer        |
| AAP Person 9                    | Lead Program Manager      | AAP Person 52                                                               | Senior Engineer level III |
| AAP Person 10                   | Lead Program Manager      | AAP Person 53                                                               | Executive Assistant RTB   |
| AAP Person 11                   | Senior Project Manager    | AAP Person 54                                                               | Corporate Attorney        |
| AAP Person 12                   | Senior Project Manager    | AAP Person 55                                                               | Accountant                |
| AAP Person 13                   | Senior Project Manager    | AAP Person 56                                                               | Subject Matter Expert IV  |
| AAP Person 14                   | Mission Analyst           | The yellow legend :<br>temporarily transferred<br>from Bigelow<br>Aerospace |                           |
| AAP Person 95                   | Mission Analyst           |                                                                             |                           |
| AAP Person 16                   | Mission Analyst           |                                                                             |                           |
| AAP Person 96                   | Mission Analyst           |                                                                             |                           |
| AAP Person 18                   |                           |                                                                             |                           |
|                                 | Lead Scientist level V    |                                                                             |                           |
| AAP Person 19                   | Lead Scientist level V    |                                                                             |                           |
| AAP Person 20                   | Engineer Specialist       |                                                                             |                           |
| AAP Person 21                   |                           |                                                                             |                           |
|                                 | Lead Engineer             |                                                                             |                           |
| AAP Person 22                   | Engineer Specialist       |                                                                             |                           |
| AAP Person 23                   | Lead Engineer             |                                                                             |                           |
| AAP Person 24                   | Lead Scientist level IV   |                                                                             |                           |
| AAP Person 25                   | Subject Matter Expert I   |                                                                             |                           |
| AAP Person 26                   | Lead Op/Research Analyst  |                                                                             |                           |
| AAP Person 27                   | Lead Op/Research Analyst  |                                                                             |                           |
| AAP Person 30                   | Mission Analyst           |                                                                             |                           |
| AAP Person 31                   | Mission Analyst           |                                                                             |                           |
| AAP Person 42                   | Executive Secretary       |                                                                             |                           |
| AAP Person 97                   | Receptionist              |                                                                             |                           |
| AAP Person 44                   | Snr. Project Mgr Security |                                                                             |                           |
| AAP Person 46                   | Security Officer          |                                                                             |                           |
| AAP Person 47                   | Security Officer          |                                                                             |                           |
| AAP Person 48                   | Security Officer          |                                                                             |                           |
| AAP Person 49                   | Security Officer          |                                                                             |                           |
| Utah Ranch                      | Security Officers         |                                                                             |                           |

We are optimistic that in the next 4-5 months we can hire the full complement of staff (possibly 50-60 personnel to begin the 2<sup>nd</sup> year) that will make BAASS the necessary vibrant organization to make progress in this field. This will give BAASS a solid foundational base. With increased funding for next year we hope to dramatically the number of employees.

## **Progress on Obtaining Clearance for Existing Staff**

AAP Person 4 the BAASS administrator, AAP Person 7 BAASS deputy administrator, AAP Person 8 BAASS senior analyst, AAP Person 53 executive secretary to AAP Person 4 AAP Person 44 BAASS Senior Program Manager Security, AAP Person 9 BAASS lead program manager, AAP Person 57 and [redacted] (from AAP Person 58 Earthtech and BAASS contractors) all have travelled to Washington DC to complete the security clearance process. Other BAASS employees are in multiple stages of investigation.

## Progress by Earthtech on Production of 24-30 Position Papers on Physics of Advanced Aerospace Vehicles

AAP Person  
57

On December 31, 2008 BAASS awarded a contract to Earthtech International [redacted] AAP Person 57 to deliver 24-30 position papers that will be based on expanding and focusing on strategically important sub-projects from the 12 position papers previously delivered by the subcontractor on twelve (12) technical areas: 1.) Lift, 2.) Propulsion, 3.) Control, 4.) Power Generation, 5.) Spatial/Temporal Translation, 6.) Materials, 7.) Configuration/Structure, 8.) Signature Reduction (optical, infrared, radiofrequency, acoustic), 9.) Human Interface, 10.) Human Effects, 11.) Armament (RF and DEW), 12.) Other peripheral areas in support of (1-11).

AAP Person  
57

According to an update from [redacted] AAP Person 57 progress is being made. Delivery of all 24-30 papers is scheduled for July 2009. The following is an update from [redacted] AAP Person 57 on the individual contributors and the titles of their reports as of the end of March 2009.

|               | Contributor   | Organization              | Topic                                 | Due Date  |
|---------------|---------------|---------------------------|---------------------------------------|-----------|
|               | AAP Person 58 | EarthTech Intern'l        | Antigravity Studies                   | 5/1/2009  |
| AAP Person 75 | AAP Person 75 | [redacted] Consulting     | SC-mediated gravity experimentation   | 5/1/2009  |
|               | AAP Person 69 | Positronics Research      | Matter-antimatter energy source       | 5/15/2009 |
| AAP Person 74 | AAP Person 74 | [redacted] Cons.          | Warp drives                           | 5/15/2009 |
|               | AAP Person 73 | Wayne State Univ.         | Brain-machine interfaces              | 5/15/2009 |
|               | AAP Person 65 | Univ. of Arizona          | Novel MEMS-based biosensors           | 5/1/2009  |
|               | AAP Person 70 | Univ. of Illinois         | IEC fusion as a compact energy source | 6/15/2009 |
|               | AAP Person 58 | EarthTech Intern'l        | Vacuum energy applications            | 5/1/2009  |
|               | AAP Person 57 | EarthTech Intern'l        | Spacetime modification                | 5/1/2009  |
|               | AAP Person 58 | EarthTech Intern'l        | Wormholes in spacetime                | 5/1/2009  |
|               | AAP Person 66 | Ohio State Univ.          | Advanced metallic alloys              | 5/15/2009 |
|               | AAP Person 63 | Johns Hopkins Univ.       | Metallic glass materials              | 6/10/2009 |
|               | AAP Person 90 | Programmable Matter Corp. | Programmable matter                   | 6/10/2009 |
|               | AAP Person 65 | Univ. of Arizona          | Novel biomaterials                    | 5/1/2009  |
|               | AAP Person 71 | Univ. of Texas/Austin     | Metallic spintronics                  | 6/10/2009 |

|               |                             |                                          |           |
|---------------|-----------------------------|------------------------------------------|-----------|
| AAP Person 67 | HyperTech Concepts          | Advanced aerospace technologies          | 5/15/2009 |
| AAP Person 68 | Univ. of St. Andrews        | Metamaterials/invisibility cloaks        | 5/1/2009  |
| AAP Person 78 | Univ. of Texas/Austin       | Metamaterials/signature reduction        | 6/10/2009 |
| AAP Person 80 | Intern'l Acad. Astronautics | Statistical Drake equation               | 5/1/2009  |
| AAP Person 81 | Wayne State Univ.           | Field effects/biological tissues         | 5/15/2009 |
| AAP Person 79 | DoD consultant              | Laser weapons                            | 5/31/2009 |
| AAP Person 64 | Northrop Grumman (ret.)     | Pulse-power-based weaponry               | 5/1/2009  |
| AAP Person 77 | GravWave, LLC               | Gravity wave communication               | 5/1/2009  |
| AAP Person 76 | Univ. of Washington         | FTL/quant entanglement communication     | 5/31/2009 |
| AAP Person 75 | Consulting                  | Maverick vs. corporate inventor cultures | 5/1/2009  |

AAP Person  
75

# **Progress on BAASS Database**

## **Development-Project Capella**

### **Data Warehouse**

#### **Statistical Executive Summary**

The data warehouse currently includes 234,364 unusual aerial phenomena reports of sightings occurring from 593 B.C. to present time. Some of the sightings in the data warehouse are duplicated reports and some have received classical explanations as natural phenomena. Sighting reports of sufficient intent for further analysis within the warehouse are divided into one of four classifications:

- 48% of reports are considered “flyby” (FB) events where the observed object(s) travel without discontinuity
- 31% of reports are considered “close encounters” (CE) where object(s) are observed on or near the ground
- 15% of reports are considered “maneuver” (MA) events where observed object(s) display a discontinuous trajectory
- 6% of reports are considered “anomalies” (AN) events which includes sightings such as amorphous lights, and other unexplained anomalous activity

These four classifications are further divided into categories that define whether the events were associated with lasting physical effects, living entities, reality transformation, or physical injuries. BAASS does not believe that the breakdown of reports in the data warehouse accurately reflects the percentage of actual sightings. For example, 31% of sightings are not close encounters. This high percentage reflects the witnesses’ increased likelihood to report their sighting when it is a close encounter compared to an unexplained phenomenon far away from the witness. Significant statistics from the BAASS data warehouse include:

- Approximately 1.9% of sightings were reported by military personnel

- Approximately 0.6% of sightings were reported by police officers
- Approximately 0.3% of sightings were reported by pilots
- Approximately 0.8% of sightings reported physical traces
- Approximately 0.5% of sightings reported physiological reactions by witnesses
- Approximately 2.1% of sightings reported entities or lifeforms
- Approximately 0.6% of sightings reported sightings with correlated radar data
- Approximately 0.6% of sightings reported electro-magnetic effects

## Data Warehouse - Statistical Summary

### BAASS DATA WAREHOUSE

Summary: The BAASS Data Warehouse consists of six databases and associated supporting documentation. Five of the databases contain historical reporting information [NIDS 1843(a)(2) Blue Book, UFOCAT, and MUFON]. The MUFON database is continuously updated with current reports. The sixth component is the BAASS database which will contain all documentation associated with current and future BAASS case studies.

Total Reports: 234,364

Event Timeline: 593 B.C. - Present

Statistics:

AAP Person 5 Reports not yet assigned   Classification: 67,580

AAP Person 5 Reports by   Classification (total number in category, percentage of assigned reports) :

|             |      |      |             |       |       |             |       |       |             |       |       |
|-------------|------|------|-------------|-------|-------|-------------|-------|-------|-------------|-------|-------|
| <b>AN1:</b> | 3161 | 2.1% | <b>FB1:</b> | 67258 | 43.6% | <b>MA1:</b> | 17445 | 11.3% | <b>CE1:</b> | 20187 | 13.1% |
| <b>AN2:</b> | 1760 | 1.1% | <b>FB2:</b> | 5807  | 3.8%  | <b>MA2:</b> | 5530  | 3.6%  | <b>CE2:</b> | 12220 | 7.9%  |
| <b>AN3:</b> | 3781 | 2.5% | <b>FB3:</b> | 226   | 0.1%  | <b>MA3:</b> | 109   | <0.1% | <b>CE3:</b> | 9308  | 6.0%  |
| <b>AN4:</b> | 602  | 0.4% | <b>FB4:</b> | 53    | <0.1% | <b>MA4:</b> | 60    | <0.1% | <b>CE4:</b> | 4087  | 2.7%  |
| <b>AN5:</b> | 779  | 0.5% | <b>FB5:</b> | 59    | <0.1% | <b>MA5:</b> | 71    | <0.1% | <b>CE5:</b> | 1611  | 1.0%  |

AAP Person  
5

Additional Reports assigned  Classifications without category number:

AN: 40      FB: 198      MA: 245      CE: 0

AAP Person  
5

Total Reports in each  Classification:

AN: 10123 6.5%    FB: 73601 47.6%    MA: 23460 15.2%    CE: 47413 30.7%

- Approximately 1.9% of cases were reported by military personnel
- Approximately 0.6% of cases were reported by police officers
- Approximately 0.3% of cases were reported by pilots
- Approximately 0.8% of cases reported physical traces
- Approximately 0.5% of cases reported physiological reactions by witnesses
- Approximately 2.1% of cases reported entities or lifeforms
- Approximately 0.6% of cases reported sightings with correlated radar data
- Approximately 0.6% of cases reported electro-magnetic effects

## **SUBSECTIONS OF BAASS DATA WAREHOUSE**

Note: Events statistics may change as reports are analyzed and input in Capella format.

### **1. NIDS Database**

Summary: Database developed by National Institute for Discovery Science containing reports on the full spectrum of anomalous activity.

Format: Capella 11-Screen

Total Reports: 1570

Event Timeline: 1946-2004

Statistics:

AAP Person 5 Reports by [ ] Classification:

|         |          |          |          |
|---------|----------|----------|----------|
| AN1: 51 | FB1: 490 | MA1: 383 | CE1: 498 |
| AN2: 2  | FB2: 5   | MA2: 16  | CE2: 44  |
| AN3: 2  | FB3: 0   | MA3: 0   | CE3: 20  |
| AN4: 0  | FB4: 0   | MA4: 1   | CE4: 20  |
| AN5: 2  | FB5: 2   | MA5: 0   | CE5: 8   |

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| Multiple Witness Events: 819         | Electro-Magnetic Effects Events: 99 |
| Ground Traces Events: 36             | Landing Events: 74 + 8 Possibles    |
| Physiological Events: 81             | Radar Events: 2                     |
| Lifeform Events: 42                  | Animal Reaction Events: 91          |
| Memory Loss Events: 70 + 4 Possibles |                                     |

## 2. 1843(a)(2) Pilot Database

Summary: Database of international reports of anomalous activity observed by pilots. Database was filtered to contain only unexplained phenomena.

Format: Capella 11-Screen

Total Reports: 485

Event Timeline: 1942-2007

Statistics:

AAP Person 5 Reports by [ ] Classification:

|        |         |         |       |
|--------|---------|---------|-------|
| AN: 40 | FB: 198 | MA: 245 | CE: 0 |
|--------|---------|---------|-------|

|                                      |                           |
|--------------------------------------|---------------------------|
| Multiple Witness Events: 335         | Military Events: 230      |
| Electro-Magnetic Effects Events: 69  | Radar Events: 152         |
| Interacted with Aircraft Events: 174 | Flight Safety Events: 185 |
| Physiological Events: 14             |                           |

## 3. Sign/Grudge/Blue Book Database

Summary: Database of all cases reported as part of U.S. Air Force Operations Sign, Grudge, and Blue Book.

Format: Capella 10-Screen

Total Reports: 13,123

Event Timeline: 1942-1969

Statistics:

AAP Person 5 Reports by  Classification:

|        |           |          |          |
|--------|-----------|----------|----------|
| AN1: 1 | FB1: 4876 | MA1: 72  | CE1: 171 |
| AN2: 3 | FB2: 256  | MA2: 371 | CE2: 52  |
| AN3: 0 | FB3: 0    | MA3: 0   | CE3: 10  |
| AN4: 0 | FB4: 0    | MA4: 0   | CE4: 5   |
| AN5: 0 | FB5: 0    | MA5: 1   | CE5: 1   |

AAP Person 5 Not yet assigned  Classification: 7304

|                              |                      |
|------------------------------|----------------------|
| Military Events: 732         | Airfield Events: 667 |
| Military Aircraft Events: 31 | Nuclear Events: 57   |

#### 4. UFOCAT Database

Summary: Database initiated at conclusion of Project Blue Book to continue cataloging reports. Duplicate reporting from various sources occurs on numerous cases.

Format: Access Database

Total Reports: 203,805

Event Timeline: 593 B.C. - 2008

Statistics:

AAP Person 5 Reports by  Classification:

|           |            |            |            |
|-----------|------------|------------|------------|
| AN1: 2565 | FB1: 58912 | MA1: 15384 | CE1: 17827 |
| AN2: 1668 | FB2: 5468  | MA2: 5073  | CE2: 11989 |
| AN3: 3717 | FB3: 180   | MA3: 89    | CE3: 9122  |
| AN4: 569  | FB4: 0     | MA4: 28    | CE4: 3917  |
| AN5: 765  | FB5: 51    | MA5: 58    | CE5: 1592  |
| IFO: 4550 |            |            |            |

AAP Person 5 Unknown  Classifications: 60,276

|                          |                              |
|--------------------------|------------------------------|
| Contact Events: 614      | Occupant Events: 526         |
| UFO Crash Events: 60     | Physical Traces Events: 1623 |
| Nuclear Site Events: 352 | Radar Events: 923            |
| Military Events: 2841    | Police Reported Events: 1280 |

Physiological Events: 740

Animal Reaction Events: 570

Electro-Magnetic Effects Events: 1121

### **5. MUFON Case Management System Database**

Summary: Database of cases reported to MUFON via their web-based reporting system initiated in mid-2003. Does not contain MUFON's 13,000 reports received from 1969 through mid-2003.

Format: Web-based Database

Total Reports: 15,381 (as of February 23, 2009)

Event Timeline: 1890 - 2009

Statistics:

AAP Person  
5

Reports by  Classification:

|           |            |            |            |
|-----------|------------|------------|------------|
| AN1: ≈544 | FB1: ≈2980 | MA1: ≈1606 | CE1: ≈1691 |
| AN2: 87   | FB2: 78    | MA2: 70    | CE2: 135   |
| AN3: 62   | FB3: 46    | MA3: 20    | CE3: 156   |
| AN4: 33   | FB4: 53    | MA4: 31    | CE4: 145   |
| AN5: 12   | FB5: 6     | MA5: 12    | CE5: 10    |

Hoax Events: ≈800

Identified Natural Phenomena Events: ≈396

Identified Man-made Object Events: ≈640

Identified (Other) Events: ≈836

Insufficient Data Events: ≈2850

Entity Events: ≈3828

Events within 500 feet of Witness: ≈3816

Events within 20 feet of Witness: ≈817

Reports in 2008: 5969

### **6. BAASS Database**

Summary: The BAASS database will contain all documentation associated with current and future BAASS case studies.

Format: Capella 11-Screen

Total Reports: 0

Event Timeline: 2009 - TBD

## Statistical Summary - Definition of Terms

| <u>Term</u>              | <u>Acronym</u> | <u>Definition</u>                                                                                                                                                                       |
|--------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AAP Person<br>5 Flyby    | FB             | A <input type="text"/> classification used when the observed object(s) travel without discontinuity                                                                                     |
|                          | FB1            | A simple sighting of an unexplained object "flying by" in the sky without discontinuity                                                                                                 |
|                          | FB2            | A flyby with physical evidence, such as a recorded sound or radar tracking                                                                                                              |
|                          | FB3            | A flyby where report of an object is accompanied by the observation of beings on board                                                                                                  |
|                          | FB4            | A flyby in connection with which the witness claims he or she has undergone a transformation of reality                                                                                 |
|                          | FB5            | where witnesses of a flyby suffer serious injuries                                                                                                                                      |
| AAP Person<br>5 Maneuver | MA             | A <input type="text"/> classification used when observed object(s) display a discontinuous trajectory, leading to the determination of specific ground locations where actions occurred |
|                          | MA1            | An object with a discontinuous trajectory such as a drop, a maneuver, a hovering stop, or a loop                                                                                        |
|                          | MA2            | The cases that give rise to physical effects in addition to a discontinuity in trajectory                                                                                               |
|                          | MA3            | The cases of objects with discontinuous trajectories when beings are observed on board                                                                                                  |
|                          | MA4            | Instances of maneuvers accompanied by a sense of transformation of reality for the percipient                                                                                           |

MA5 When permanent injury or death is related to a maneuvering object

AAP Person  
5

Close Encounter CE

A  classification used when object(s) are observed on or near the ground

CE1 Objects seen on the ground or close to the ground

CE2 Close encounters where physical effects or traces were reported

CE3 Close encounters where "occupants" or "entities" were present

CE4 Close encounters with abduction reports in which the witness claims not only to have seen occupants but to have extensively interacted with them inside their vehicle or craft

CE5 Close encounters in which the witnesses have suffered permanent injury or other physiological or pathological effects

AAP Person  
5

Anomalies AN

A  classification used which includes sightings such as amorphous lights, and other unexplained anomalous activity

AN1 Anomalies like amorphous lights or unexplained explosions in the sky, that do not have lasting physical effects

AN2 reports involve lasting physical effects, such as poltergeist phenomena, anomalous photographs, flattened grass or "apports"

- AN3      Anomalies with associated entities -- could involve reports of ghosts, yetis and other instances of cryptozoology, or elves or spirits
  
- AN4      Anomalous reports in which witnesses describe personal interaction with entities in the reality of the entities themselves
  
- AN5      Anomalous injuries or deaths are reported, such as unexplained wounds or spontaneous combustion

## **BAASS has Contracted to Purchase Information on UAPs from MUFON**

In order for BAASS to best serve the government it needs to become the central information source on UAPs in the United States and around the world. It is essential to receive information on current UAPs that are occurring in real time in the United States until BAASS has sufficient internal capabilities. One way for BAASS to achieve this goal is to contract with an organization that has hundreds of investigators already in place around the United States. The Mutual UFO Network (MUFON) is such an organization. MUFON has been in existence for four decades and currently has approximately 1000 volunteers who can investigate reports of UAP sightings in all 50 states.

In February 2009, BAASS executed a Purchase order with MUFON that entitles BAASS to: (a) receive notification of significant reports on UAP sightings from anywhere in the United States within hours, (b) receive timely reports from MUFON investigators regarding investigations of these incidents (c) receive physical evidence (including photographs, digital recordings, samples of soil, insects, plants, and animals) for scientific analysis. BAASS has multiple laboratories that are ready to conduct forensic, photographic, metallurgic, chemical, isotope, biological, chemical analysis of any specimens that BAASS receives from MUFON.

BAASS has already hired a small team of ten high quality top investigators with extensive intelligence and law enforcement investigative experience. These investigators are currently located in Las Vegas and are trained to deploy as "special forces" rapid reaction investigative teams that are deployable anywhere in the United States if BAASS determines that high value UAP cases warrant additional investigations. However this investigative group is still far too small to cover the geographic area needed in both the United States and overseas.

## **University of Nevada Research Project**

BAASS is creating a very valuable research program with the University Nevada Las Vegas (UNLV) involving multiple faculty, post doctoral fellows and graduate students. This unique program will examine the sociological, military and scientific consequences to the United States of a variety of scenarios involving UAP activity. During 2009, BAASS is funding UNLV to undertake dozens of parallel studies on sociological, military, political, religious, public health, academic and media effects of scenarios involving increasingly intrusive demonstrations of UAP activity in United States air space.

In the second year (September 2009-September 2010), BAASSs overarching objective for this program is to stimulate, motivate and encourage the senior levels of the academic community within the United States to involve themselves in study and research of very advanced aerial spacecraft that is presently considered phenomenological. This program will grow to a seven figure level of cost. UNLV will be at the center of this research.

In this effort, it is this program's goal to lay the seeds for serious exploration of this topic within the national academic community at its highest levels. After six decades of overt, blatant conspicuous and obtrusive global performance by very advanced anomalously behaving spacecraft, the academic community is still successful in maintaining the posture that these spacecraft either don't exist or are not worthy of serious research and study. Foundationally, there still remains a giggle factor which has been instrumental in squashing serious consideration and thought.

The second objective is to extract from this large untapped body of resource information not previously obtained.

Our concern is that the top universities/technical institutes in some foreign countries MAY take this subject more seriously than we do in the United States and hence MAY already have devoted significant resources to their study. BAASS has acquired full support from both the 1843(a)(2) and the 1843(a)(2) 1843(a)(2).

The following are a small number of scenarios with which UNLV faculty teams will be tasked with studying consequences to the media, economy, department of defense, political groups, science, the general public, religion, public health and academia in the United States. Needless to mention, within these general sociological groupings there are dozens of sub-categories of effects for each one of these scenarios.

- (1) The United States Government releases documentary recently declassified and unclassified information on their investigations of UAP activity 1947-2008. The information release involves thousands of cases and is akin to the recent releases by the UK, French, Canadian and Danish governments.
- (2) The following foreign governments rapidly release their (unclassified) data on the UAP topic: Germany, Russia, Spain and Brazil. Since UK, French, Canadian and Danish governments have already published their unclassified cases, the latest releases means that eight governments have released their documents on UAPs in 12 months.
- (3) Approximately 20-30 scientists, police, military located at a variety of vantage points around a military base-national lab report seeing a 1 mile in diameter, round shaped UAP flying slowly and then suddenly vanishing.
- (4) Multiple high altitude UAPs are spotted by citizens and military personnel on the ground over Washington DC on 2-3 consecutive nights. The objects are also detected by radar. Fighter aircraft were launched in response. Compare the consequences of these events in the actual incidents in 1952 versus the consequences if these events happened in 2009.
- (5) A giant UAP (>800 meters) is seen for two successive nights flying very slowly over a city of 4 million people. [Actual case, Phoenix Arizona the night of March 13 1997]

- (6) Multiple day and night sightings of UAPs are seen by multiple witnesses over a small size town. They are detected on radar and at least ten F-16s are scrambled in response. The UAPs are detected flying near the restricted air space over the residence of a sitting President of the United States (POTUS). [Actual case September 2007]
- (7) The United States Air Force releases a statement that the both crashes in 1947 involved spacecraft of non terrestrial origin.
- (8) A retired NASA administrator, a retired POTUS, a retired head of Senate Intelligence Committee, a retired Speaker of the House, a retired head of the CIA and a retired Secretary of Defense hold a joint news conference and say that extraterrestrial craft are real and the United States Government has the evidence. [Similar to the November 12, 2007 National Press Club Press Conference].
- (9) Four separate night time sightings of very large (>800m in diameter) low altitude UAPs flying slowly over major cities (populations 3-4million people) occur over a 12 month period. [Has not occurred yet]
- (10) One 5 minute unambiguous day time sighting of UAP activity (Craft > 800 meters in diameter) occurs over a city of 4 million people. [Has not occurred yet, but could be a tipping event].

## Progress on BAASS Becoming the Official reporting Agency for the FAA

- In January 2009, BAASS initiated contact with the FAA. The intent was for BAASS to submit change recommendations in accordance with FAA Order 7000.5C to the three FAA publications listed below which:
  - Changes “National Institute for Discovery Sciences (NIDS)” to Bigelow Aerospace Advanced Space Studies (BAASS).”
  - Deletes NIDS from the list of acronyms.
  - Adds BAASS to the list of acronyms.
  - Includes BAASS contact information for:

1843(a)(2)

The three FAA publications that will contain the wording that nominates BAASS as the reporting agency are:

- USDoT FAA *Aeronautical Information Manual*, Change 1, dated July 31, 2008
- USDoT FAA Order JO 7110.65S, dated February 14, 2008
  - *Air Traffic Control*
- USDoT FAA Order JO 7210.3V, dated February 14, 2008
  - *Facility Operations and Administration*

On March 4, 2009, BAASS received word from AAP Person 128 of the Procedures Development Group at the FAA stating that the FAA would be pleased to co-ordinate the changes that BAASS had requested. [redacted] delegated the task of this coordination to 1843(a)(2) an FAA Air Traffic System Operations Security Procedures Specialist who is currently working with BAASS to co-ordinate these changes as expeditiously as possible.

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# **THE UFO ASSAULT ON BRAZIL,** **WITH ITS EPICENTER AT COLARES**

**This report documents the enormous impact of the  
UFO assault on the people Brazil from 1977 – 2003.**

**It began in the town of Colares, in the state of  
Para, and spread throughout the country.**

## **Executive Summary**

**March 30, 2009**

AAP Person 8

**Senior Scientist**

**Bigelow Aerospace Advanced Space Studies**

1843(a)(2)

**THE UFO ASSAULT ON BRAZIL,  
WITH ITS EPICENTER AT COLARES**

**EXECUTIVE SUMMARY**

**Introduction**

The world is full of many terrors. This study is about one of them, a terror that comes from some place other than Earth. It is a terror that the world's governments have completely ignored or claim doesn't exist, perhaps because they know of no way they can protect their citizens from it. The terror comes from Unidentified Flying Objects and the beings that operate them.

Since the 1970s, and probably much earlier, these objects have been doing terrible things to people in Brazil – perhaps more so than in all other countries combined. This fact has been documented by extensive on-the-scene

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investigations conducted by [redacted] a well-known private investigator and

AAP Person 5 [redacted] an eminent scientist from the United States. The accumulated

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result of [redacted] work has been organized for BAASS into eight 1½” thick three-ring notebooks amounting to several thousand pages of data. The purpose of this executive summary is to reduce the mass of that information down to an easy to understand record of what took place in Brazil over a period of nearly three decades starting in the 1970s.

Possibly more important than just recording what happened to the people of Brazil, is the fact that the reports document hundreds of incidents demonstrating advanced technologies that we are yet to understand and duplicate. The human physiological effects recorded across hundreds of square kilometers of jungles, river banks, hills, and small towns and villages give us clues to the types of technologies being demonstrated there. In addition, accounts describing the appearance and operational characteristics of the craft give us a broader view of how advanced technologies operate while on Earth and are completely untouchable by our own Earth-based technologies. These technology demonstrations included: human effects, lift, propulsion, control, power generation, spatial/temporal translation, materials, configuration, structure, signature reduction, human interfaces, and armament. A problem of this magnitude can no longer be ignored.

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To illustrate the potential impact on the future of the world, we have summarized the results of [redacted] Brazilian flap investigations under the following five categories:

- Human Effects

- Geographic Data
- Spacecraft Data
- Occupants
- Government Interactions.

The data given below has been extracted from the transcripts of more than 370 on-site investigations, involving 514 victims, as conducted by AAP Person 127 beginning in the late 1970s and running through 2003. The attached map (Exhibit 1) documents the location of many of the cities where these events took place.

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work was further verified by the on-site investigations conducted by AAP Person 5

AAP Person 5

AAP Person 5 world recognized expert in this field. Their work is reinforced by summaries of the additional investigations done by the following Brazilian experts, as shown in the "Government Interactions" section of this report:

1843(a)(2)

By comparison, 1843(a)(2) a private Brazilian UFO investigative group, conducted a series of expeditions to UFO hot spots beginning in 1969 and continuing into the early 1990s. He and his team traveled more than 41,000 kilometers and spent over 2,000 hours conducting on-site investigations. They traveled more than 16,000 kilometers during the 1977 - 1979 Colares assault alone.

Other than this brief summary of the work done by 1843(a)(2) this report does not attempt to cover the huge number of investigations conducted by as many as a dozen other private Brazilian UFO investigative

organizations working throughout the country at the same time. Very little of that body of work has been translated into English.

Conversion factors used in this report are as follows:

- Meter = 39.37 inches
- Kilometer = 0.62 miles
- Square kilometer = 0.3861 square miles

### Human Effects

People living in northeastern Brazil since the 1970s have been terrorized in a variety of ways by exposure to UFO technologies. There have been so many incidents that the people now cringe in fear when they see a light that flies, changes direction or drops to the ground. The fear factor becomes worse when an object suddenly appears overhead, bathing the victims in glaring light and extremes of temperature, often causing their horses, pets or other farm animals to bolt and run away. In many of the more extreme cases people are burned, wounded, and left unconscious, with after effects ranging from headaches, nausea, and scarring to long term illnesses and death. Many must deal with various kinds of physical evidence, extremes of reality transformations, and exposure to strange entities. Human effects incidents containing all of the above situations and more have been thoroughly documented by AAP Person 127, the families of the victims, government officials, multiple private investigators, and medical practitioners.

AAP Person 127 traveled to Brazil numerous times and worked with a group of Brazilian investigators, translators and medical people to show the important, but

sinister nature of what happened to the people there. The data summarized below is based on an evaluation of [redacted] detailed investigative reports.

- Deaths – 10 humans died after periods of prolonged illness following their exposure to this technology. More than 300 animals were found dead of unknown causes during the same period and in the same area of the country.
- Burns – 54 people were burned during close encounters
- Comas – 14 people were left in an unconscious state for short periods of time
- Paralysis – 54 people suffered from paralysis of fairly short duration, while paralysis plagued a few people for several weeks.
- Skin problems
  - Puncture wounds – 23 of the people suffering from burns also had puncture wounds within the burned areas of their skin. Most felt that blood was taken via the puncture wounds.
  - Rashes – 2 persons had a rash from an unknown allergen. Perhaps it is because of climate and living conditions, but most people didn't mention rashes as a problem
  - Itching – Only one person mentioned being bothered by itching. Again this may be because of climate and living conditions.
  - Scarring – 8 of the burned individuals had fairly extensive permanent scarring resulting from the burns
- Eye problems
  - Irritation – 34 people complained of irritated eyes
  - Temporary blindness – 5 people suffered from blindness for a short period of time
  - Vision acuity changes – 8 people suffered from vision changes. No reports even mentioned the wearing of corrective lenses.
- Nausea/Vomiting – 41 people suffered from bouts of nausea, with some having to deal with vomiting as well
- Headaches – 55 people reported extreme headaches
- Temperature
  - Hot – 46 people described extensive heat during their close encounter

- Cold – 28 people felt like they were enveloped in a pocket of cold air during the event
- Prolonged illness – 36 people were ill for long periods of time, ranging from months to years. The deaths reported above came from this select group of people.
- Anemia – [redacted] located 3 people that were found to be anemic during periods following their encounter, however, most victims were not tested for anemia. Two additional women suffered from anemia following their separate UFO encounters. Their condition was verified by [redacted 1843(a)(2)] [redacted 1843(a)(2)] for the Legal Medicine Institute in Belem. Both women reported being engulfed by a beam of light that burned them and left each of them physically debilitated.
- Weight loss – 2 people reported extensive weight loss. There may have been more weight loss cases, but the people did not focus on weight as a measure.
- Extreme fear – 423 people claimed to be terrified by their close encounter and the resulting physiological effects. Thousands of other citizens that lived in the area where the incidents were occurring also claimed to live in fear because of what had happened to people they knew and many of them would no longer go outside at night. Many people completely changed their life styles because of this fear. [redacted 1843(a)(2)] and the FAB team said: "The town of Colares, Para, lives in a state of 'collective hysteria.' The inhabitants don't sleep, nor fish (which is their main occupation). As soon as night falls, bands of 20-30 people, mostly men circulate around the town. The population lives in a state of terror." This situation eventually spread throughout the region.
- Abductions – 18 people claimed to have been abducted. Most were found afterwards in a location other than where the original encounter occurred.
- Nearness to the craft – people with injuries claim to have been as near as 2 - 4 meters (i.e. right over their heads) and others were up to 200 meters away. Non-affected observers were at distances of more than 200 meters to as much as 6,000 meters.

## Geographic Data

Brazil is one of the largest nations in the world, with more than one hundred seventy-five million people living in a land almost as big as the United States. However, most of the investigations covered by this report are from northeastern Brazil, ranging from the Amazon, to northern Maranhao, to Colares, and down the Atlantic coast to Uruguay. No one has fully recorded when the UFO activity actually started or how much of Brazil it covered, but we do know it started in northern Maranhao as early as April 1977, continued there for four months and apparently then moved on to the Colares region for much of the rest of the year. It could have started earlier elsewhere in Maranhao or Piaui or other states but at this time we do not have the records to establish that fact. And it may have continued after 1977 in other parts of Para, Amapa, Amazonas, Roraima or even farther north or west beyond the borders of Brazil. What we have been able to document about the flap is the intensive level of activity taking place in Maranhao and the Colares area in 1977 and 1978, and continuing sporadically for years after that time, extending to surrounding areas. In many cases, the same individuals were revisited approximately one decade following their initial exposure. The following facts illustrate the breadth of the problem:

- Land Statistics – Brazil has a land area of 8,465,510 square kilometers (3,265,075 square miles), with 7,491 km (4,655 miles) of coastline. The Brazilian UFO assault began in the state of Para, in the wetlands and tropical forests at the mouth of the Amazon River. By comparison, the Brazilian wetlands are ten times the size of the Florida Everglades. As time passed, the UFO activity moved through the states of Maranhao and Ceara and down the coastline along the Brazilian highlands from Fortaleza to Rio de Janeiro and beyond. The attached map (Exhibit 1) graphically illustrates the number of cities involved.
- States where incidents occurred – number of incidents investigated by 
  - Ceara – 48 incidents
  - Marajo – 1
  - Maranhao – 17

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- Minas Gerais – 44
- Para – 92 (The cities of Colares and Belem are in this state)
- Paraiba – 4
- Parana – 1
- Rio De Janerio – 11
- Rio Grande do Sul – 4
- Rio Grande do Norte – 121
- Sao Paulo – 20
- Vila – 3
- Other – 5
- Total locations – 371
- Type of terrain where incident occurred
  - Land – 281
  - Water – 38
  - Unspecified – 52
- Number of towns/villages affected – Not specified, but thought to be in the thousands. 1843(a)(2) and his FAB team said the objects were covering Brazilian air space in strips much the way aerial photographers would. Each strip could cover dozens to hundreds of villages. For example, the state of Para has a population of more than 8 million inhabitants living in 1.2 million homes. The village of Colares, the focal point of the 1977 UFO assault has a population of more than 10,000 people, living in 3,200 homes. Nearly everyone living in Colares was impacted by the UFO activity there. Similar statistics are available for each of the other Brazilian states.
- Number of physically affected victims interviewed by 514 AAP Person  
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- Types of people reporting UFO incidents
  - Professionals – 48
  - Business owners & workers – 76
  - Fishers – 61
  - Hunters – 16
  - Farmers – 168
  - Students – 167
  - Spouses - 65
  - Unemployed – 10

- Number of people not directly affected – 10,000 to one million. People across northeastern Brazil watched the sky with fearful eyes, worrying that they would become victims. Fortunately, the UFOs usually kept their distance as they traversed the area. [redacted] work indicates that the UFOs needed to be closer than 200 meters to do any significant damage to humans.

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### **Spacecraft Data**

In all cases where human effects were noted, some type of craft was involved. Sometimes the craft are seen coming from great distances, traveling at high speeds, and suddenly stopping in close proximity to the victims. At other times and without any warning, a blinding light suddenly turns on above the heads of the victims. They are subjected to variations of hot and cold temperatures. Some are wounded, burned and/or left unconscious at the scene.

The terrified victims almost always try to flee to a safe location, but many are pursued by the blinding light and have trouble hiding. Sometimes they flee to the interior of a nearby building, but the light continues searching for them, shining through a tiled or thatched roof as if it were transparent. When pursued out in the open, victims have described how the craft try to lift them from the ground, perhaps in an attempt to abduct them. And in some cases the abduction attempt appears to have been successful.

The presence of craft of a variety of shapes and sizes have been seen and documented during the close encounters, leaving little doubt in the reality of the situation. An extensive analysis of this data may give clues about how these

objects operate and perhaps lead to reverse engineering of the technology involved.

- Shape (Multiple craft were observed in some of the incidents)
  - Lights – 279
  - Orbs – 120
  - Discs – 46
  - Spheres – 19
  - Triangles – 5
  - Cylinders – 18
  - Other (unusual shapes) – 6
- Size – Ranges from baseball to basketball size for orbs, while the more structured type of craft ranges from a few feet to “huge.”
- Speed
  - High speed – 51
  - Hover – 62
  - Low speed – 78
  - Rapid speed change – 21
  - Landed – 16
- Color: The color often changes during the event. For example, a high speed object may appear yellow as it approaches but turns red before harming an individual, or may suddenly project a blue beam. In many instances the victims just described a bright light without specifying a color.
  - Yellow – 59
  - White – 30
  - Silver – 2
  - Multi-colored like fire – 47
  - Red – 116
  - Blue – 69
  - Orange – 4
- Light beams
  - Engulf victim in light (sudden illumination) – 184. This action was extremely terrifying to the victims. Many of them lived in areas without

electricity and bright lights at night, other than an occasional automobile's headlights were unheard of.

- Pursue victim – 54
- Switch on/off – 58
- Penetrate roofs/walls – 20
- Search the area – 18
- Craft becoming visible or invisible – 2. Many other victims said the craft just disappeared or the craft just appeared above them, but didn't elaborate, therefore the measure of invisibility is thought to be greatly understated here.
- Noise (the victims did not always address this issue)
  - No – 82. The victims seem to be amazed that something so frightening can come so close to them and yet are completely silent.
  - Yes – 35. When noises were noted, the victims usually said it was a 'whooshing' or a low humming sound.
- Levitation of witnesses – 30
- Mechanical devices used on humans during levitation attempts
  - Nets – 6
  - Hooks – 3
- Animal affects – The victims frequently told how their animals reacted during the incidents. Dogs barked furiously. Horses bolted and ran away. Farm animals were badly frightened. On occasion, however, a donkey would just stand there, unmoving and bathed in light throughout the event. In a couple of instances, the victim hid under a donkey and held on to its legs throughout the event. The actual quantity of animals affected is unknown because the investigations did not focus on the animals.

### Occupants

In an extremely large number of incidents the craft seem to operate intelligently but independently and no occupants were seen. One might equate such cases to our remote piloted war-fighting machines. In specific instances, however, solid, physically real craft were observed at close range and occupants from the craft

interacted with the victims on the ground. Some of the reported characteristics of the occupants are as follows:

- Size (Approximate)
  - Three feet tall – 51
  - Four feet tall – 10
  - Adult human-sized – 35
  - Animal-like – 1
- Features: Since the majority of the incidents occurred at night, the features of the occupants were not clearly visible to the victims, therefore the information in this category is sparse at best.
  - Big head – 2
  - Frail body – 7
  - Large eyes – 7
  - Normal human features – 8
  - Wearing special clothing – 16

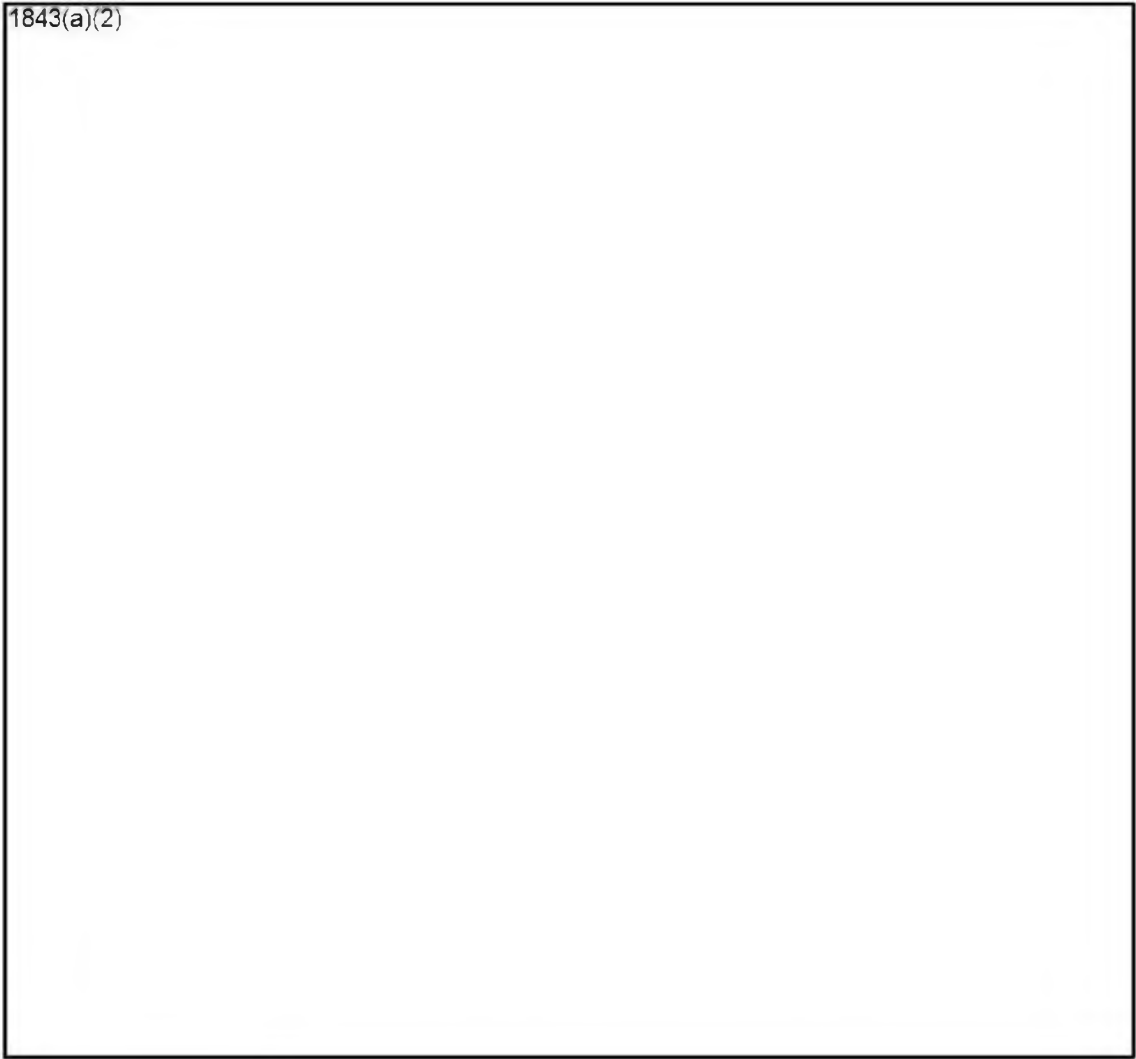
### Government Interactions

The Brazilian incidents beginning in 1977 are unique in that they were intensively investigated by an official Brazilian Air Force team, having the time, equipment and authority to spend four months in the field observing events, interviewing victims and officially recording the extent of the problem. This was an intelligence operation lead by [1843(a)(2)] and included First Air Force Command Sergeants that were technicians, photographers and other specialists.

Military people (last names only) involved in the official investigations included the following:

- [1843(a)(2)]

1843(a)(2)



 a graduate of the National School of Intelligence in Brasilia, and his Air Force team interviewed around three hundred people who had had close encounters, including dozens of men and women who had been burned by UFOs. Villagers in Colares reported that sometimes UFOs would hover in the dark sky at night and beam down rays of light at houses – beams that passed through the tile roofs as if they did not exist. At times the rays were seen circling around inside the houses as if searching for someone or something.

1843(a)(2) said his team photographed many UFOs and admitted he was once badly frightened when a huge UFO hovered just 100 meters above him and his men. "I was terrified," he said. "They could have done anything they wanted to with us. It was about seven o'clock - just after sunset. We never saw anything approaching. Suddenly a big disc-shaped object thirty meters in diameter and fifty meters high was hovering exactly above us. It was emitting a yellow glow that would grow and dim, grow and dim every two or three seconds. And after the fifth time, the lights turned light blue, dimmed – and then it disappeared with incredible speed toward the sea." This astonishing event was typical of what was happening to people throughout the area.

In addition, local mayors, police, and aviation officials became involved in the events over the next two decades.

- Individuals involved
  - Military – 56 (Military individuals also served as police)
  - Police – 10
  - State officials – 3
  - City and village officials – 6
  - Doctors – 48. As an example, 1843(a)(2) 1843(a)(2) located in Belem treated approximately 40 injured individuals during the rash of UFO incidents in Colares in 1977. She said most of the injured had burns on their chest and throat. These burns healed fairly quickly and the skin peeled off, but a few individuals had significant scarring following the healing process. Two small puncture wounds were almost always found in the center of the burned areas. She ran blood tests on the burn patients and all of them had low levels of hemoglobin.
  - Aviation officials (pilots and FAA operators) – 13.
- Evidence collected
  - Visual observation of injuries
    - By officials – 5

- By doctors – 48
- Photographs – 7. The number of photographs is low because very few of the individuals interviewed by [redacted] owned cameras. However, [redacted] during the Brazilian Air Force investigation at Colares, [redacted] 1843(a)(2) said “we took about 300 photographs of eight different shapes of UFOs.” At one point, [redacted] 1843(a)(2) said they photographed a huge ship that was 100 meters long. Small craft would come out of it and later go back in.
- Medical records
  - Available – 11
  - Held by doctors – 48
- Officials that actually witnessed an event – 40. [redacted] 1843(a)(2) was one of the officials that witnessed a metallic, cylindrical UFO in Corales. It happened in November 1977, at 6 pm, when most of the stores were closed and many people had fled from the horror there. She, the sheriff and the priest were the only officials left in town. At the time she was down by the beach and the craft was about 200 meters away. People were imploring her to flee with them, but she wouldn’t go. She was too fascinated by it. She said it was beautiful as it circled in the sky.
- Car/truck engine failures – 11. In a high percentage of the cases investigated by [redacted] the victims were either on foot, bicycle or horseback. Nevertheless, he found 11 cases where people were trapped on the road when their car or motorcycle engine died and would not restart as long as the UFO was present. In addition, [redacted] 1843(a)(2) [redacted] 1843(a)(2) had two cases involving close encounters with several police cars and about 25 cases of close encounters with civilian cars.
- Radar data – 1 (People living in the rural areas and villages had no access to radar information)

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## **Conclusion to Colares Report**

The documentation shows that northeastern Brazil was a UFO hot spot for at least two decades. Since the activity may be continuing in some form, a follow-up investigation of the current UFO situation in that region is warranted.

From the analysis of the rich treasure trove of recorded data from that era, it is evident that it is fertile with clues about the technology involved and how that technology is used in surveillance of the native population. Consideration should be given to a renewed on-site examination of the situation as it appears today with the goal of using high technology remote sensing equipment to record as many operational parameters of the craft as possible.

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## **BAASS Continues Study on Information on UAPs released by the British, Canadian and Danish Governments.**

- Over the past eighteen months, The Ministry of Defense (MoD) in the United Kingdom has released approximately 7297 pages of files pertaining to the performance of alleged UAPs in British air space. More recently the British MoD released a second group of files on March 21, 2009 comprising 1200 separate UFO cases in approximately 2000 additional pages. BAASS analysts have initiated the process of downloading, organizing and analyzing these files to determine the quality and quantity of reports that have been released by the UK government, particularly those reports that might pertain to events with national security implications.
- In February 2009, the Canadian government authorized the release of 9500 pages of files pertaining to the behavior of alleged advanced aerospace vehicles in Canadian air space. The files cover the period 1947-1980. Many of the cases were investigated by the Royal Canadian Mounted Police. BAASS analysts have initiated the process of downloading, printing, organizing and analyzing these files. The aim is to delineate the extent of high quality evidence pertaining to the topic of advanced aerial vehicle performance in the 9500 pages of Canadian files.
- On January 29, 2009 the Danish Air Force released 329 pages of reports on unusual aerial phenomena. All reports are in Danish; therefore BAASS contracted a Danish-English translator to produce English translations of all 329 pages of released files. The translation will be complete by March 13, 2009. Once the files are translated, BAASS analysts will examine them to delineate whether there are any cases that merit further study.

## **Conclusion**

As BAASS makes progress in and accelerates the hiring of employees in the coming weeks, it will be crucial that the organization has rapid access to the information that will keep the scientific staff engaged.

Secondly BAASS is currently accelerating the acquisition of all information pertaining to this topic in the open literature, increasingly from other countries.