



Agenda Item 2: Air Navigation Matters
2.3 Other Specific Air Navigation Developments
2.3.1 Aerodromes and Ground Aids (AGA)

COMPILATION OF AERODROME DATA TO SUPPLEMENT SEARCH AND RESCUE (SAR) OPERATIONS

(Presented by the United States)

SUMMARY

This Working Paper addresses the benefit of a State's aerodrome and airfield data for use by international relief organizations in responding to a crisis. A sample format for the data is provided. This information can be used as a supplement to the Search and Rescue plans already in place for each member State.

References:

- CAR/SAM RAN/3 – *Final Report*
- GREPECAS/11 – *Final Report*
- E/CAR/WG/31 – *Final Report*

1. Introduction

1.1. The recent tragedy involving the earthquake in Haiti has prompted an unprecedented relief effort by military and civilian organizations throughout the world. Though significant efforts are still underway, the feedback from first-responders to the crisis has provided valuable insight into how future responses can be improved.

1.2. From an aviation perspective, it was noted that the availability of aerodrome infrastructure information can greatly improve the support and recovery operations of organizations providing assistance. While quality aerodrome information exists in each State's Civil Aviation Authority (CAA), the situation in Haiti has shown that damage to the CAA offices and/or national communications infrastructure can delay the release of the information when it is needed most – in the hours and days immediately following a crisis.

1.3. This working paper proposes that each Eastern Caribbean State compile data on their aerodromes and airfields as a precautionary measure to assist international relief efforts should a crisis occur in the future.

2. Discussion

2.1. The concept of data as a resource in aviation search and rescue (SAR) operations is well understood. In particular, the conclusions and recommendations of the Caribbean/South American Regional Air Navigation (CAR/SAM RAN/3) and the Caribbean/South American Regional Planning and Implementation Group (GREPECAS/11) meetings discuss a number of SAR-related items. Most recently, the 31st meeting of the Eastern Caribbean Working Group (E/CAR/WG/31) produced the draft conclusion 31/2.b, stating that “That the Directors of Civil Aviation of the Eastern Caribbean convene a high level SAR Meeting in the E/CAR during the first quarter of 2010 with an aim to: establish proper Coordination between civil and military authorities for efficient use of all available resources...”

2.2. The collection and dissemination of aerodrome data is a tremendous resource for large-scale relief efforts following a crisis. An example of the benefit this information can provide is shown in the **Appendix**. In response to the Haitian earthquake, the U.S. Military compiled a list of all available data on aerodromes and airfields in Haiti, the Dominican Republic, and surrounding States (Table A-1). By analyzing this data, a plot of the airfields and suitable aircraft was able to be generated (Figure A-1). The information gathered was critical in the strategic planning of relief operations in Haiti, allowing essential equipment and supplies to be flown in to the airports based on the capability of each facility.

2.3 A suggested format for the aerodrome and airfield data is provided below:

General

- Airport Name:
- ICAO ID:
- City:
- Time Zone:
- Latitude:
- Longitude:
- Elevation:
- Magnetic Variation:
- Operating Agency:
- Operating Hours

Runways

- ID: x/x
- Dimensions (ft/m):
- Surface Type:
- PCN:
- ILS:

Communications

- Tower freq.:

Nav aids

- Type:
- ID:
- Name:
- Channel:
- Freq:
- Distance from field:
- Bearing from Navaid:

Supplies/Equipment

- Fuel:

Remarks

- Caution:
- Customs / Immigration:
- Operational Hours:

3. Conclusion

3.1. The Meeting is invited to review the content of this working paper and consider the benefits of the proposed data. If an affirmative decision to collect the data is made, Members are invited to compile the necessary aerodrome and airfield data to assist international organizations in future relief operations.

APPENDIX

U.S. MILITARY DATA ON HAITIAN AERODROMES AND AIRFIELDS

Airport Name	Alt Name	ICAO	Elev	wgs_lat	wgs_long	Rwy	Len	Width	Sfc
DOS MARE ROUGE		MT	75	18.20550000	-73.13470556	01-19	1380	60	GRE
PIGNON		MT	1139	19.32200833	-72.11859722	06-24	3339	85	GRE
MEXI W		MT	318	18.21123611	-73.09392222	14-32	1800	75	GRE
TOUSSAINT LOUVERTURE INTL	PORT AU	MTPP	122	18.58006389	-72.29251944	10-28	9964	141	ASP
CAYES		MT	203	18.27145000	-73.78802222	08-26	3378	80	ASP
MOLE ST NICOLAS		MT	30	19.83340278	-73.35883611	04-22	2080	40	GRS
JEREMIE		MTJE	216	18.65883611	-74.12650278	10-28	3339	85	GRS
PORT SALUT		MT	35	18.06449444	-73.91277778	09-27	2562	60	GRE
CAP HAITIEN INTL		MTCH	10	19.73265556	-72.19483611	05-23	4886	131	ASP
JACMEL		MTJA	167	18.24108333	-72.51850000	01-19	3300	85	ASP
PORT DE PAIX		MTPX	33	19.93441389	-72.84765278	06-24	2815	50	GRE
HINCHE		MT	856	19.13878056	-72.01594722	07-25	2680	55	GRE
QUANAMINTHE		MT	121	19.53708333	-71.72863889	02-20	2544	50	GRE
ANSE A GALETS WEST		MT	16	18.84101667	-72.88029722	12-30	2430	50	GRE

Table A-1. Basic Aerodrome and Airfield Data

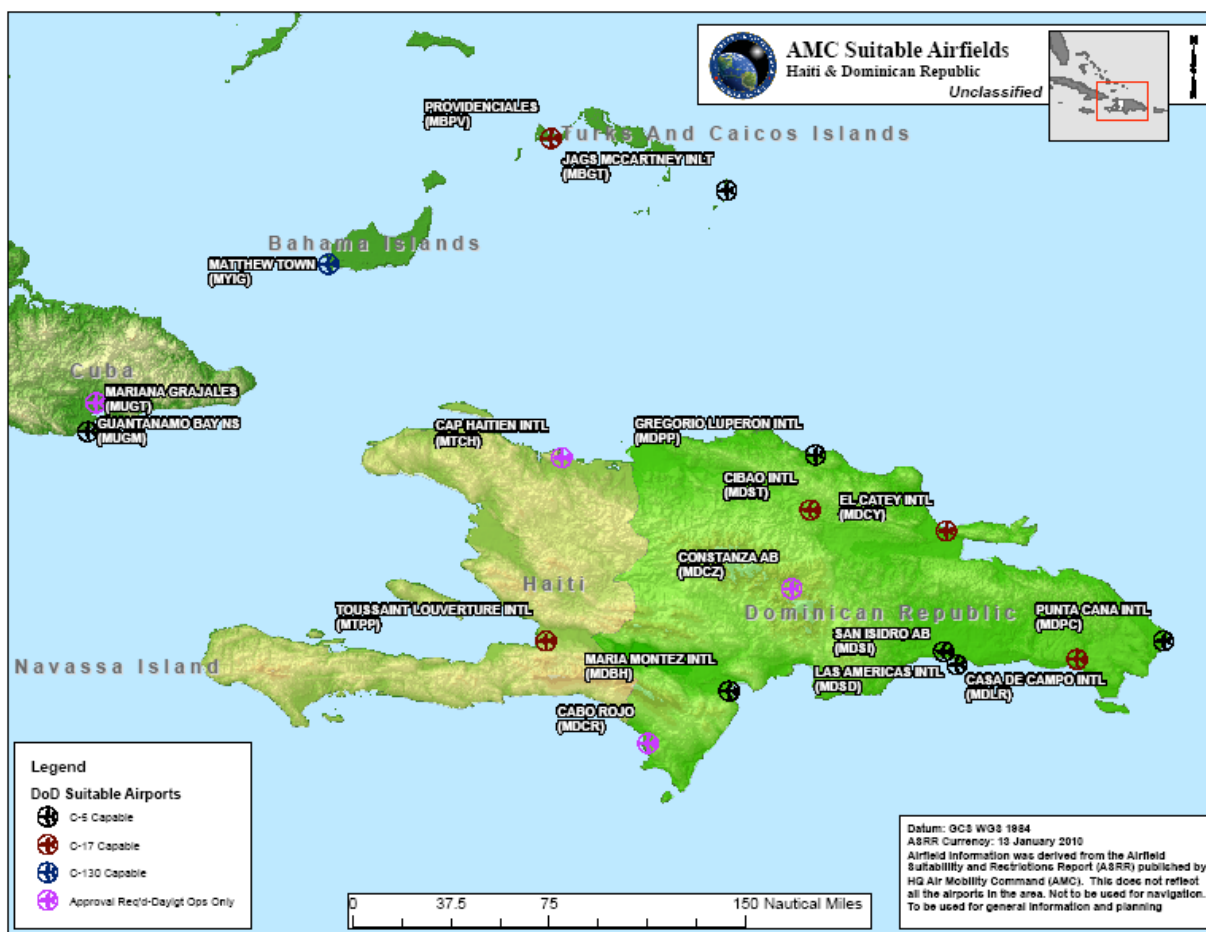


Figure A-1. Plot of US DoD Suitable Airfields

— END —