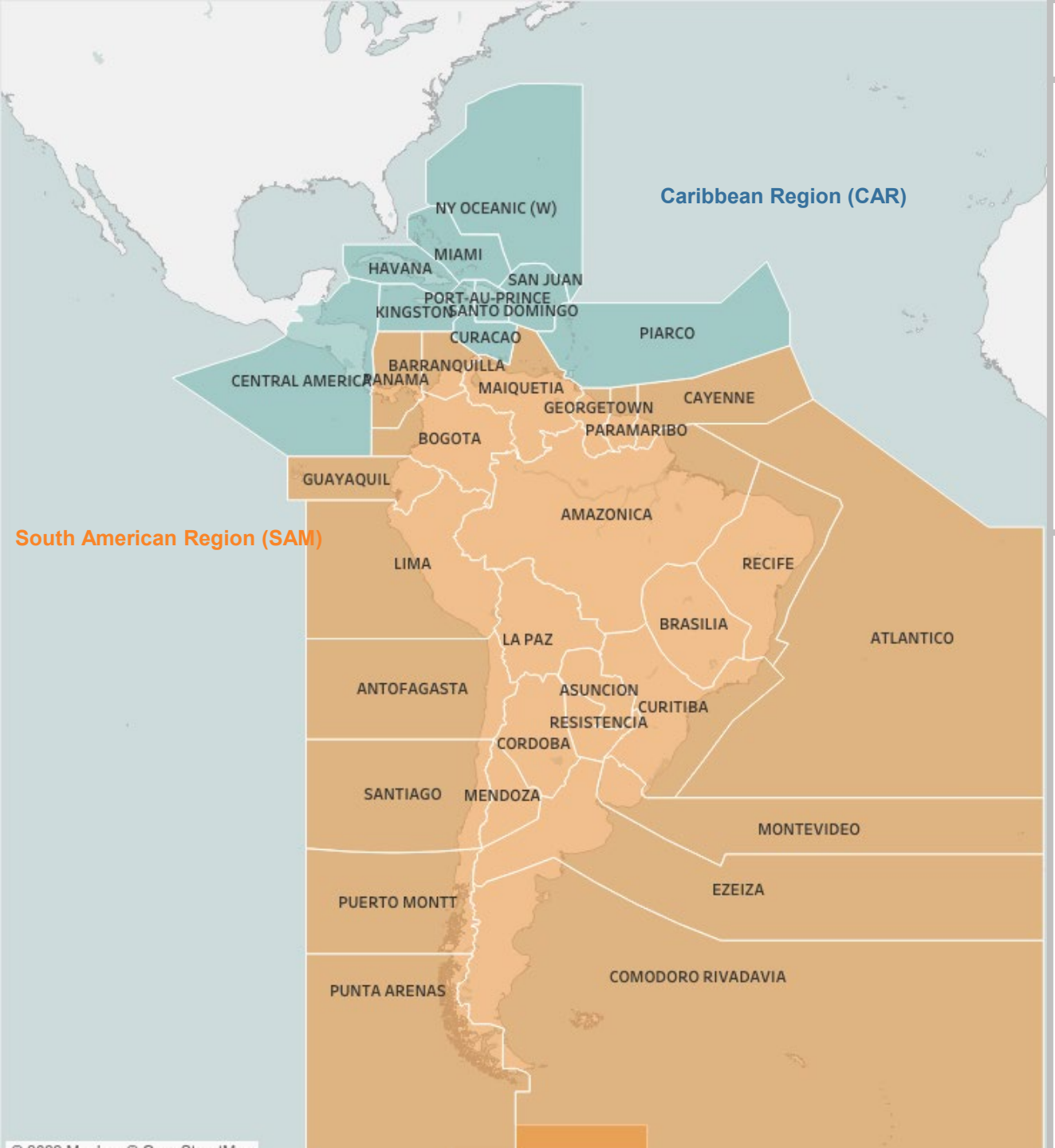
2021 Airspace Safety Assessment CARIBBEAN / SOUTH AMERICA

- CAR/SAM Planning and Implementation Regional Group (GREPECAS)
Twenty-second Scrutiny Working Group Meeting (GTE/22)
- 26 – 30 September 2022

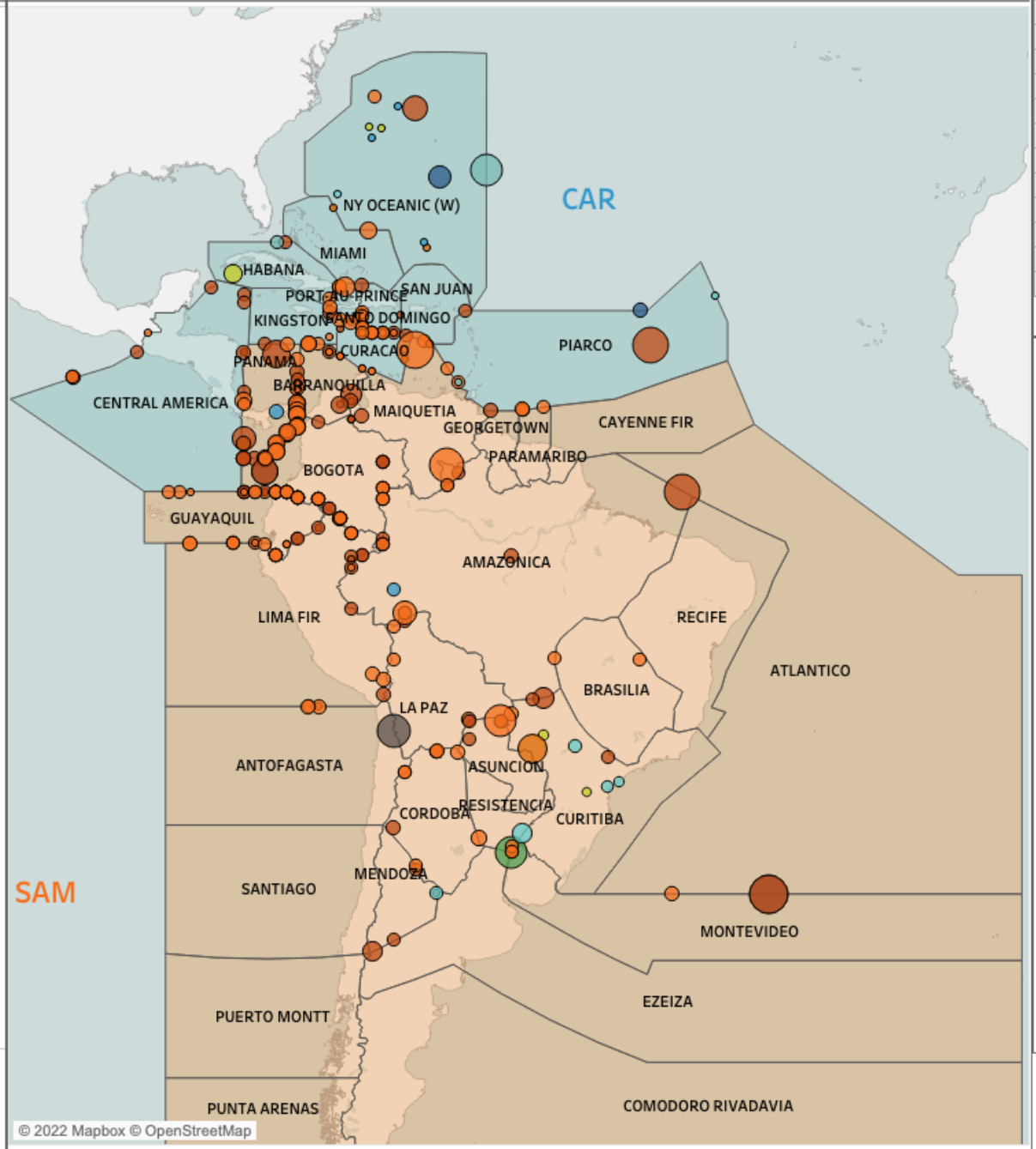


REGION	FIRs		RMAs
CAR	Curacao Central America Havana Port au Prince Kingston Miami Oceanic	New York West Santo Domingo Piarco San Juan	CARSAMMA NAARMO
SAM	Atlantico Amazonica Antofagasta Asuncion Barranquilla Bogota Brasilia Cayenne Comodoro Rivadavia Cordoba Curitiba Ezeiza Georgetown	Guayaquil Isla de Pascua La Paz Lima Maiquetia Mendoza Montevideu Panama Oceanic Paramaribo Puerto Montt Punta Arenas Recife Resistencia Santiago	CARSAMMA

Summary of LHD

CODE/COLOR	LHD DESCRIPTION
A	Flight crew failing to climb or descend the aircraft as cleared
B	Flight crew climbing or descending the aircraft without ATC clearance
C	Incorrect operation or interpretation of airborne equipment (incorrect operation of FMS, incorrect transcription of clearance, following flight plan or original clearance rather than ATC clearance or re-clearance, etc)
D	ATC system loop error (ATC issues incorrect clearance or flight crew misunderstands clearance message)
E1	Coordination error in the ATC-to-ATC transfer of control responsibility as a result of human factors issues (incorrect time estimate/actual, flight level, ATS route, etc)
E2	Coordination error in the ATC-to-ATC transfer of control responsibility as a result of human factors issues (non-existent coordination)
G	Aircraft contingency event leading to sudden inability to maintain assigned flight level (pressurization failure, engine failure, etc)
H	Airborne equipment failure leading to unintentional or undetected change of flight level (altimetry system errors, etc)
I	Turbulence or other weather related causes
L	An aircraft provided with RVSM separation is not RVSM approved (flight plan indicating RVSM approval but aircraft not approved, ATC misinterpretation of flight plan, etc)
M	Other

LOCATIONS OF LHD



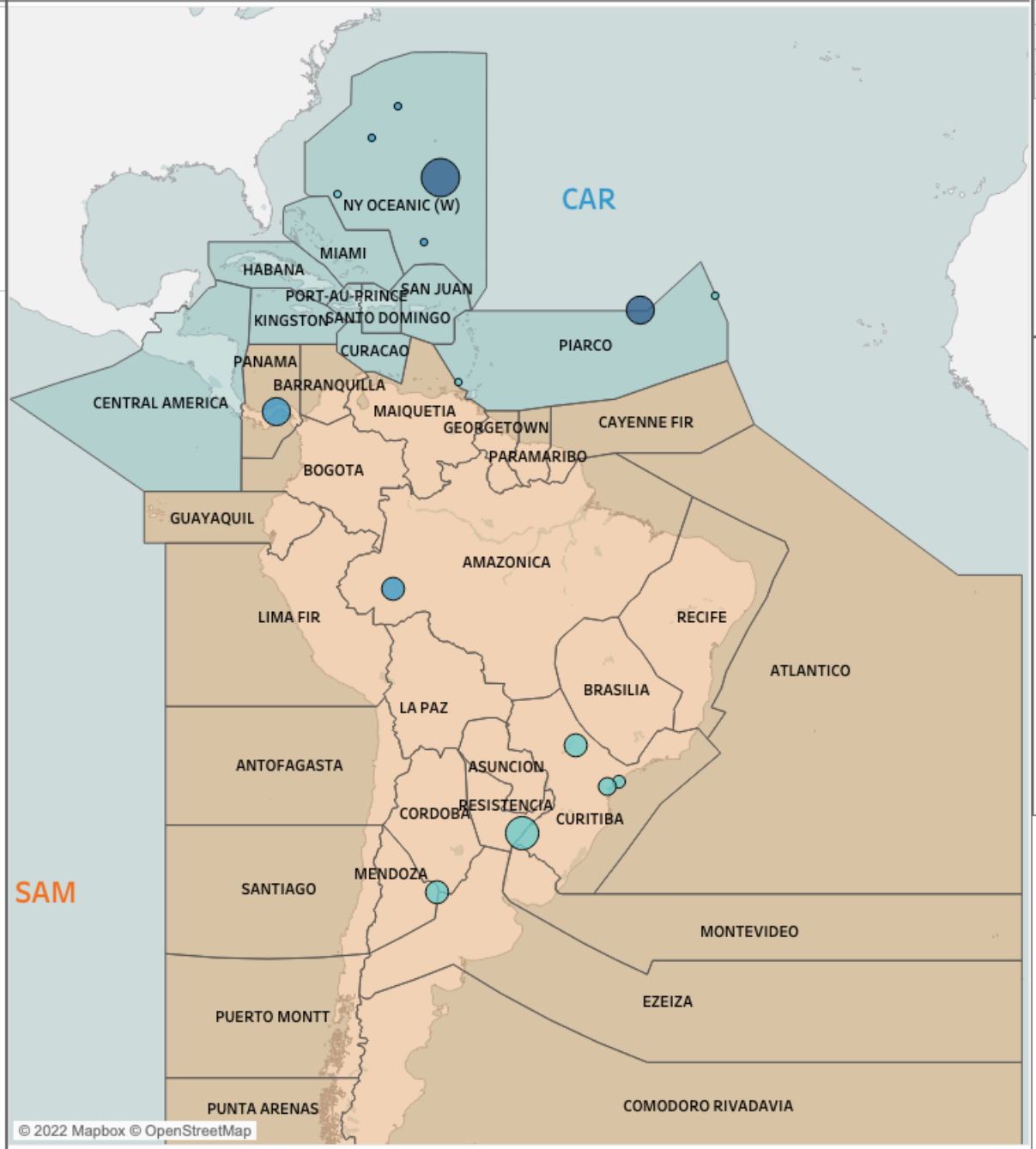
LHD Co..	CAR	SAM	CAR/..
A	3	5	
B	3	2	
C	2		
D	2		
E1	36	168	
E2	26	199	1
G	2	1	
H		1	
I	4	3	
L		1	
M		3	
TOTAL	78	383	1

Duration (Min)

- 0
- 0.05
- 0.333333333
- 0.5
- 1
- 1.5
- 2
- 3
- 3.583333333
- 4
- 5
- 9
- 10
- 11
- 15
- 16
- 20
- 25
- 29
- 35
- 47
- 60
- 120
- 220.4

CODE/COLOR	LHD DESCRIPTION
A	Flight crew failing to climb or descend the aircraft as cleared
B	Flight crew climbing or descending the aircraft without ATC clearance
C	Incorrect operation or interpretation of airborne equipment (incorrect operation of FMS, incorrect transcription of clearance, following flight plan or original clearance rather than ATC clearance or re-clearance, etc)
D	
E1	
E2	
G	
H	
I	
L	
M	

LOCATIONS OF LHD



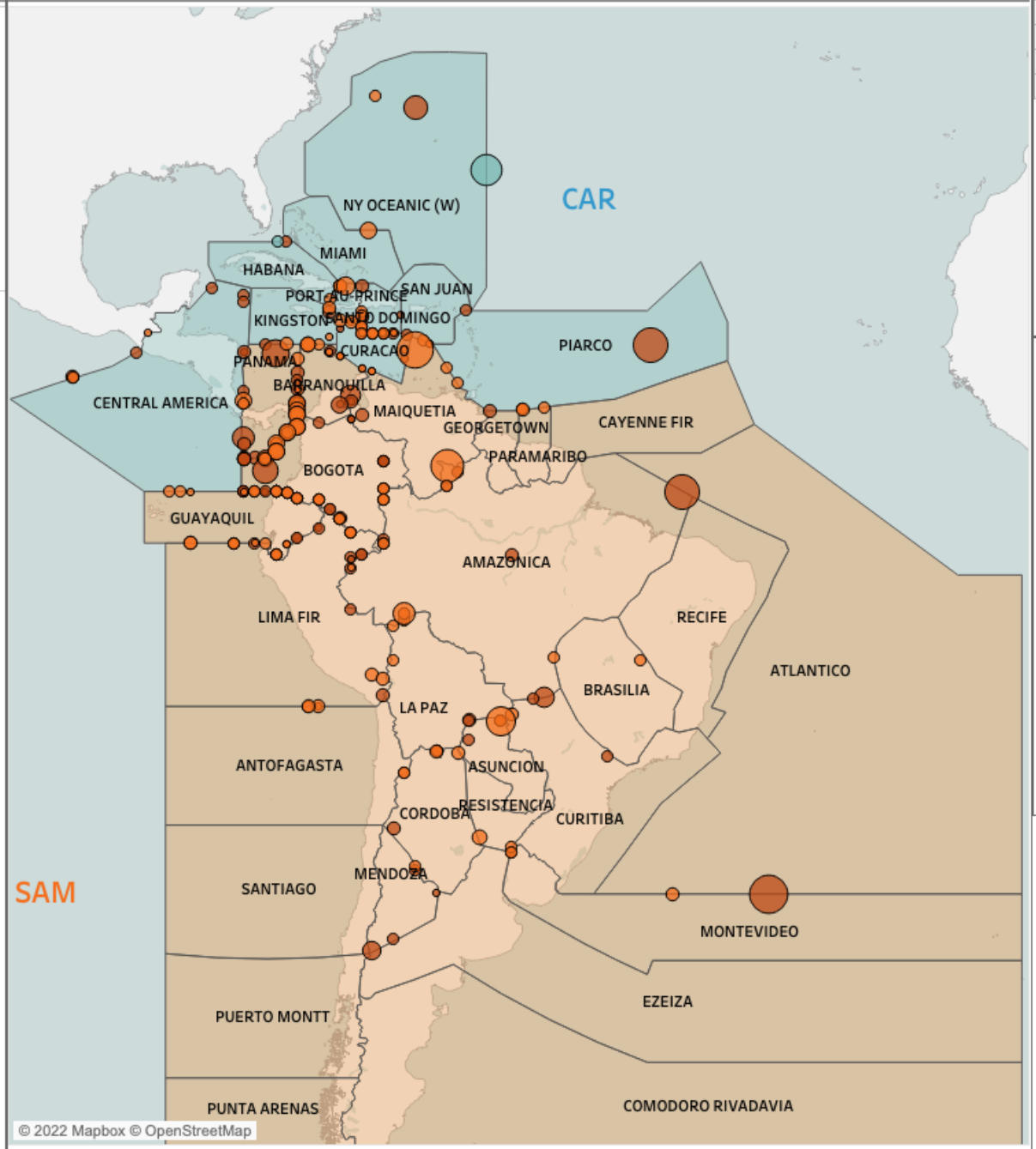
LHD Co..	CAR	SAM	TOTAL
A	3	5	8
B	3	2	5
C	2		2
TOTAL	8	7	15

Duration (Min)

- 0
- 0.333333333
- 0.5
- 1
- 1.5
- 4
- 9

CODE/COLOR	LHD DESCRIPTION
D	ATC system loop error (ATC issues incorrect clearance or flight crew misunderstands clearance message)
E1	Coordination error in the ATC-to-ATC transfer of control responsibility as a result of human factors issues (incorrect time estimate/actual, flight level, ATS route, etc)
E2	Coordination error in the ATC-to-ATC transfer of control responsibility as a result of human factors issues (non-existent coordination)

LOCATIONS OF LHD



LHD Co..	CAR	SAM	CAR/..
D	2		
E1	36	168	
E2	26	199	1
TOTAL	64	367	1

Duration (Min)

0	60
0.5	120
1	220.4
1.5	
2	
3	
4	
5	
10	
11	
15	
16	
25	
29	
47	

CODE/COLOR	LHD DESCRIPTION
G	Aircraft contingency event leading to sudden inability to maintain assigned flight level (pressurization failure, engine failure, etc)
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M	Other

LOCATIONS OF LHD

LHD Co..	CAR	SAM	CAR/..
G	2	1	
H		1	
I	4	3	1
L		1	
M		3	
TOTAL	6	9	1

Duration (Min)

- 0
- 0.05
- 0.333333333
- 1
- 1.5
- 3.583333333
- 15
- 20
- 29
- 35
- 220.4