

# Flight Pathways and Beyond: Unveiling Zvartnots Airport Data

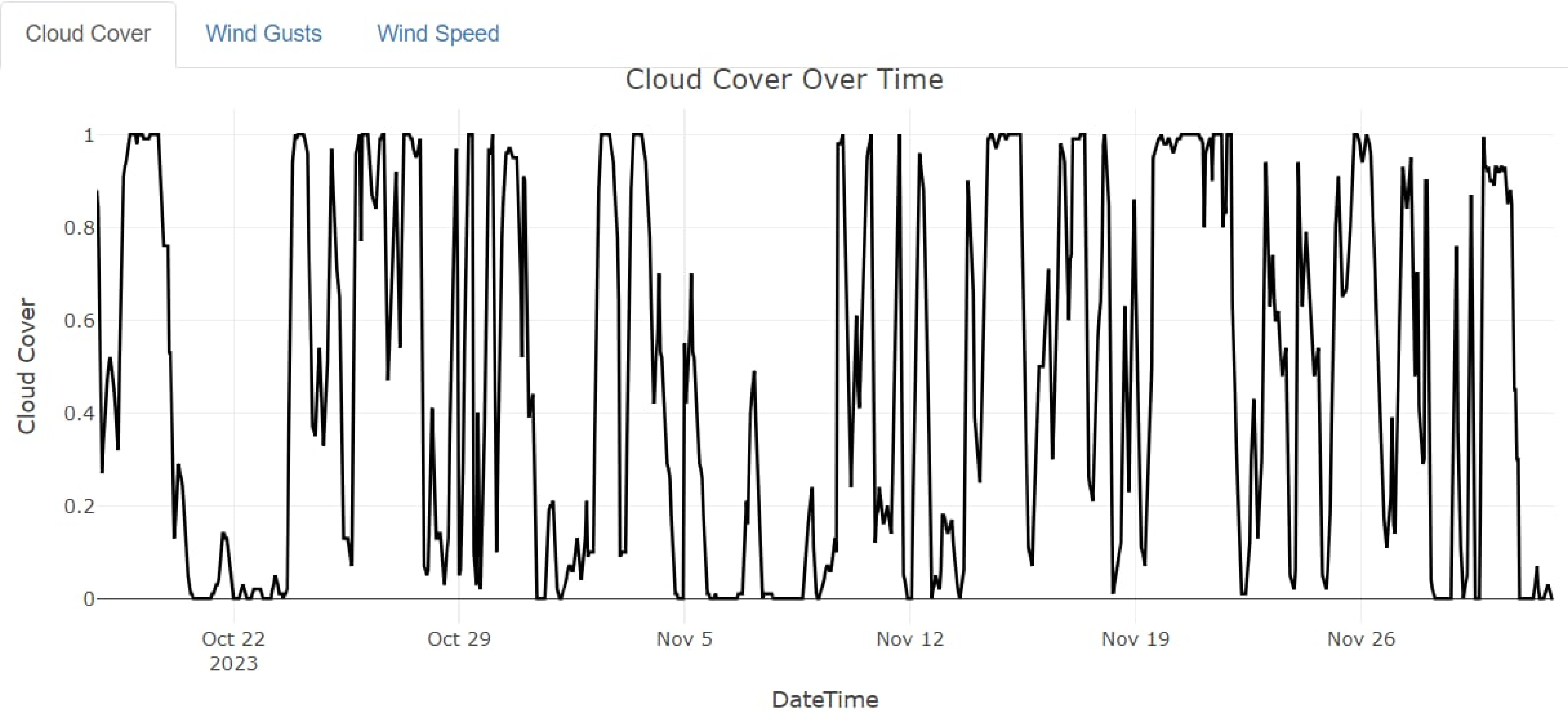
Team members: Anna Aghaloyan  
Mery Asatryan  
Seda Bayadyan

# Zvartnots flight data

Destination	FlightNumber	Code	lat	lng	country	Date	Time	Airline	Armenian	DayOfWeek	Status
Istanbul	3F 476	IST	41.0136	28.955	Turkey	2023-10-16	14:30:00	Fly One	1	Monday	Ontime
Milan	3F 246	MXP	45.4669	9.19	Italy	2023-10-16	22:20:00	Fly One	1	Monday	Ontime
Aktau	DV 845	SCO	43.6588	51.1975	Kazakhstan	2023-10-16	22:45:00	Scat Airlines	0	Monday	Ontime
Mineralnye Vody	WZ 4331	MRV	44.2095	43.1053	Russia	2023-10-16	22:50:00	Red Wings	0	Monday	Ontime
Moscow	SU 1868	SVO	55.7558	37.6178	Russia	2023-10-16	23:15:00	Aeroflot	0	Monday	Ontime
Kishinev	3F 534	KIV	47.0105	28.8638	Moldova	2023-10-16	23:30:00	Fly One	1	Monday	Ontime
Moscow	3F 312	DME	55.7558	37.6178	Russia	2023-10-17	00:30:00	Fly One	1	Tuesday	Ontime
Doha	QR 285	DOH	25.2867	51.5333	Qatar	2023-10-17	00:50:00	Qatar Airways	0	Tuesday	Ontime
Moscow	JI 103	SVO	55.7558	37.6178	Russia	2023-10-17	00:55:00	Armenian Airlines	1	Tuesday	Ontime
Moscow	G6 396	VKO	55.7558	37.6178	Russia	2023-10-17	01:20:00	Fly Arna	1	Tuesday	Ontime
Moscow	UT 785	VKO	55.7558	37.6178	Russia	2023-10-17	01:25:00	Utair	0	Tuesday	Ontime
Istanbul	PC 550	SAW	41.0136	28.955	Turkey	2023-10-17	02:35:00	Pegasus Airlines	0	Tuesday	Ontime
Warsaw	LO 727	WAW	52.23	21.0111	Poland	2023-10-17	03:20:00	LOT Polish Airlines	0	Tuesday	Ontime
Athens	A3 898	ATH	37.9842	23.7281	Greece	2023-10-17	03:20:00	Aegean Airlines	0	Tuesday	Ontime
Vienna	OS 641	VIE	48.2083	16.3725	Austria	2023-10-17	03:55:00	Austrian Airlines	0	Tuesday	Ontime
Sharm El Sheikh	SM 993	SSH	27.9158	34.3297	Egypt	2023-10-17	04:35:00	Air Cairo	0	Tuesday	Ontime
Moscow	5G 710	SVO	55.7558	37.6178	Russia	2023-10-17	05:00:00	Shirak Avia	1	Tuesday	Ontime
Batumi	JI 301	BUS	41.6458	41.6417	Georgia	2023-10-17	05:00:00	Armenian Airlines	1	Tuesday	Ontime
Moscow	SU 1966	SVO	55.7558	37.6178	Russia	2023-10-17	05:45:00	Aeroflot	0	Tuesday	Delay
Sharm El Sheikh	AMV 2112	SSH	27.9158	34.3297	Egypt	2023-10-17	06:20:00	International Airline	0	Tuesday	Ontime
Abu Dhabi	5W 7013	AUH	24.4667	54.3667	United Arab Emirates	2023-10-17	08:50:00	Wizz Air	0	Tuesday	Ontime
Moscow	3F 326	VKO	55.7558	37.6178	Russia	2023-10-17	09:00:00	Fly One	1	Tuesday	Ontime
Beirut	ME 275	BEY	33.8869	35.5131	Lebanon	2023-10-17	09:45:00	Middle East Airlines	0	Tuesday	Ontime

# Weather data

## Cloud cover time



# Weather data

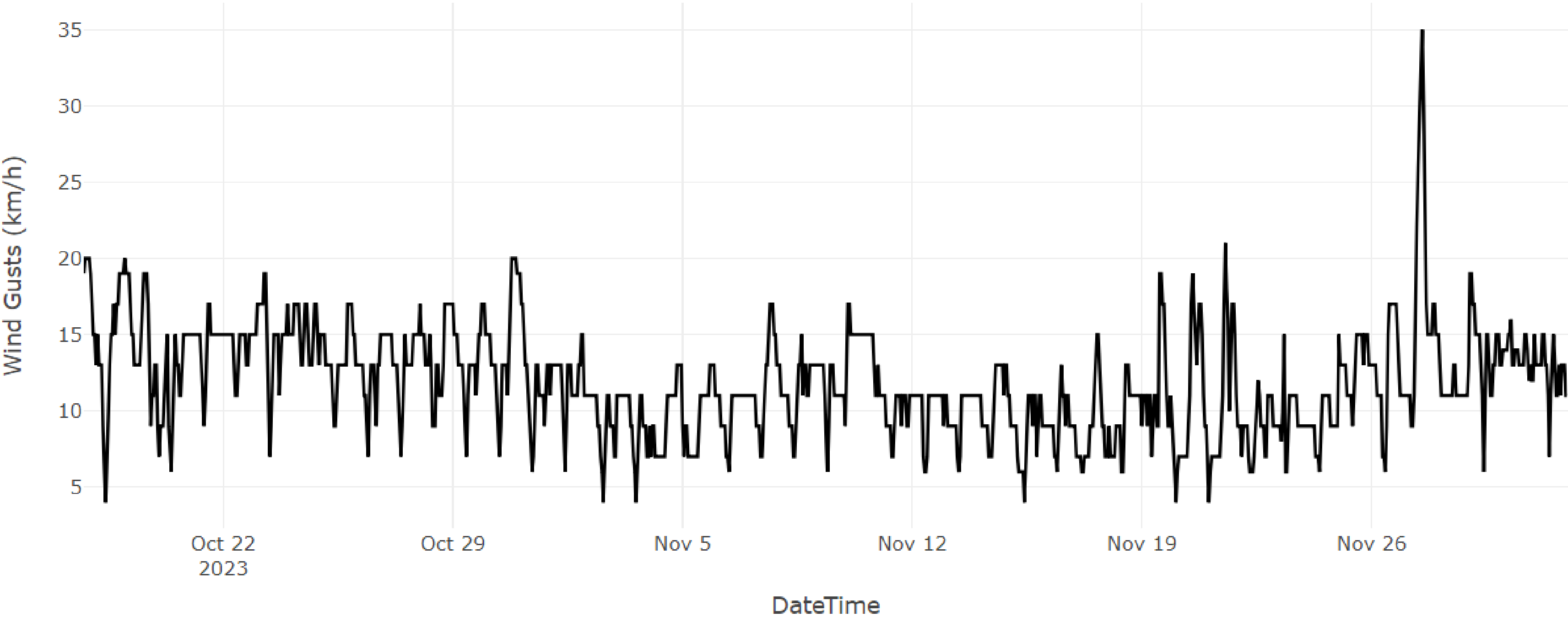
## Wind gusts time

Cloud Cover

Wind Gusts

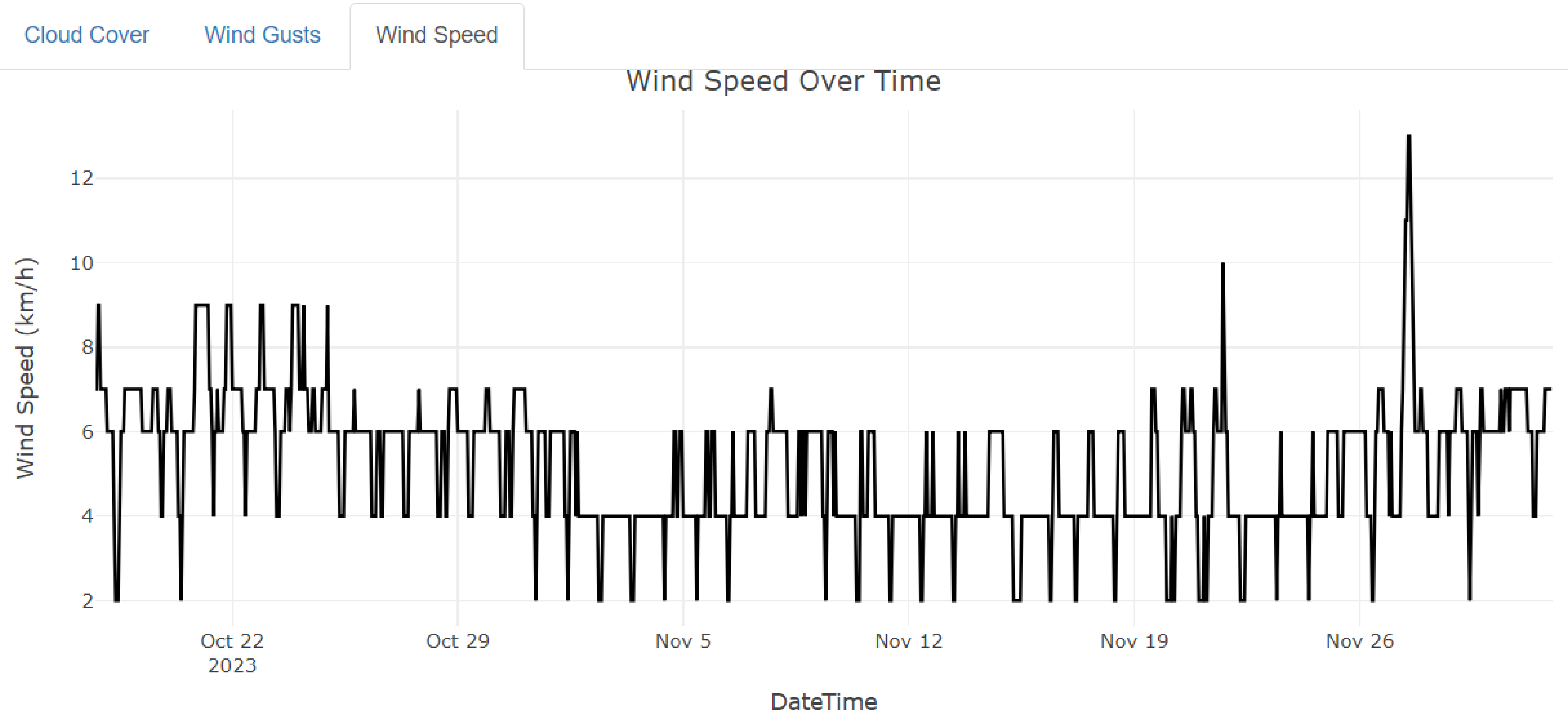
Wind Speed

Wind Gusts Over Time



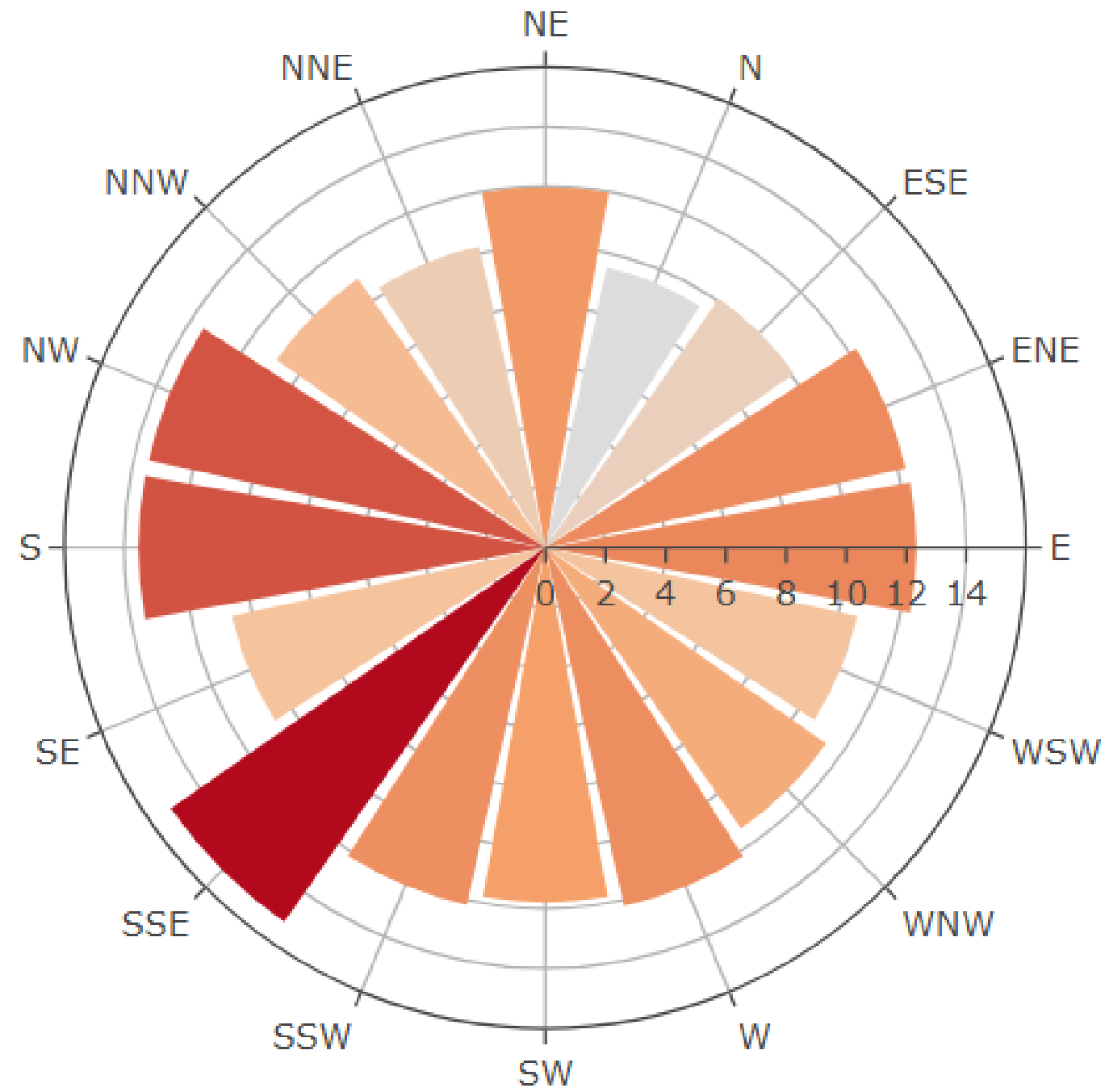
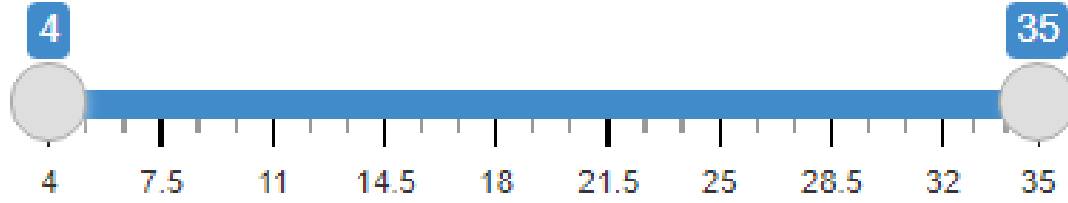
# Weather data

## Wind speed time

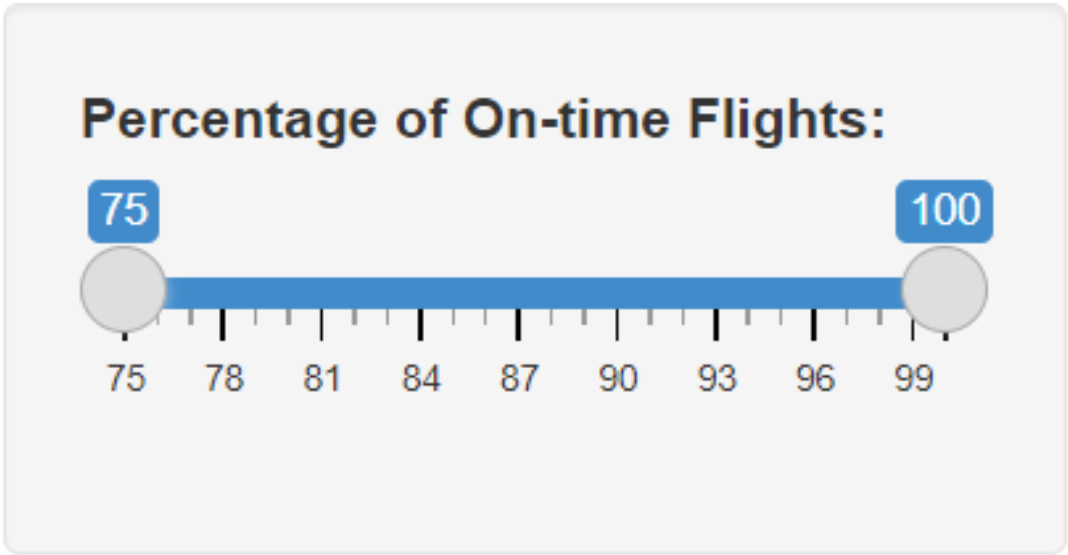


# Distribution of wind speed and direction

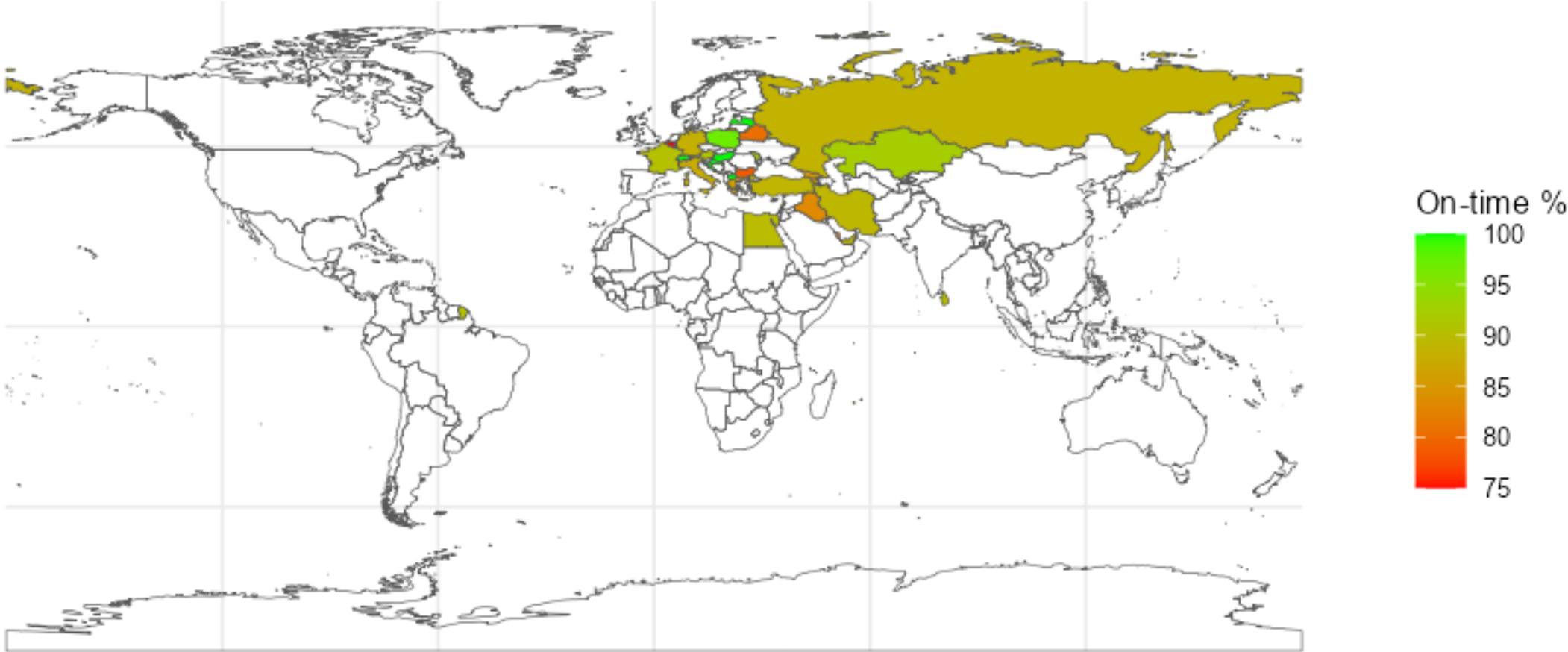
### Choose Wind Speed Range:



# Interactive On-Time Performance Map



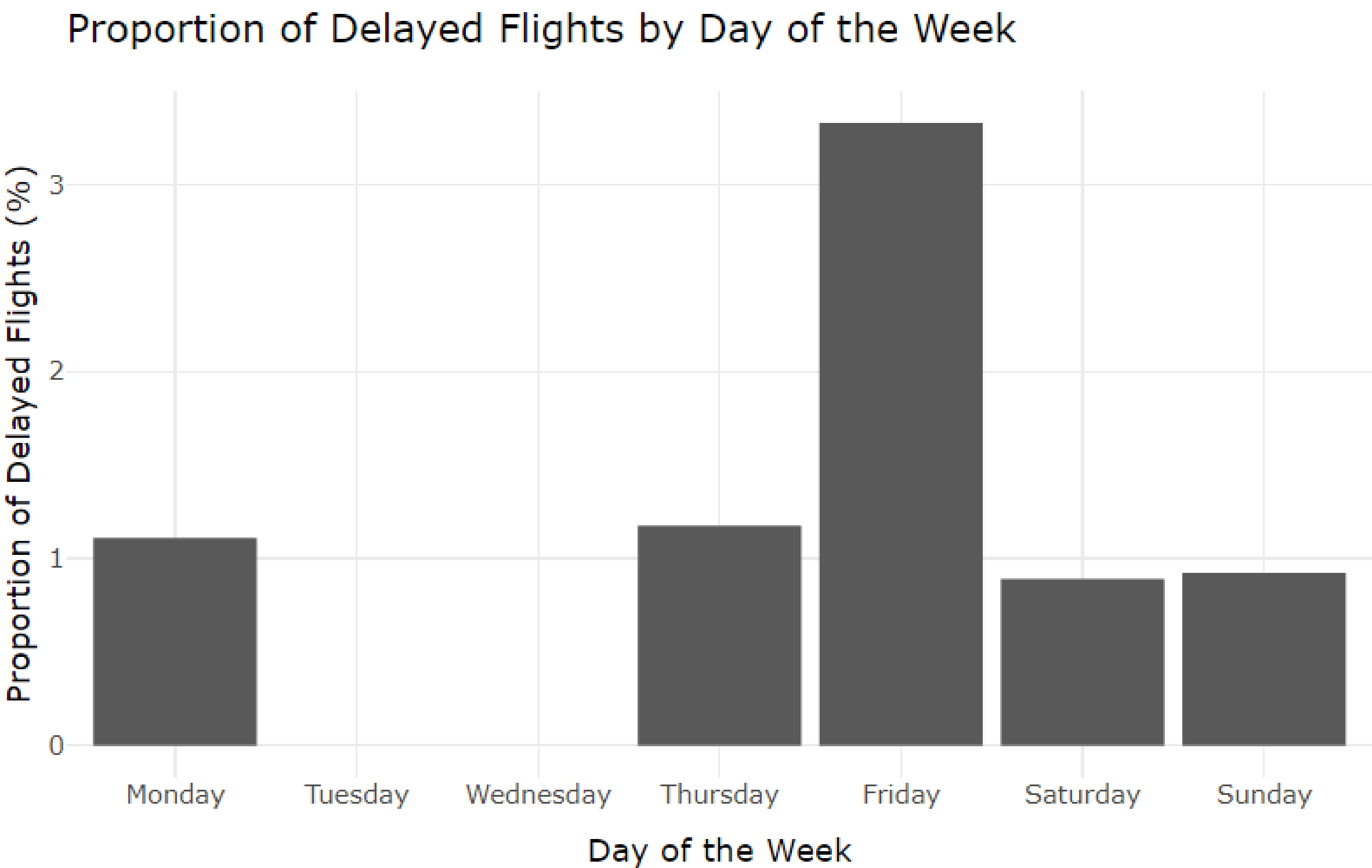
On-time Flight Performance by Country



# Flight Delays Analysis by Day of the Week

Select Airline

Fly One

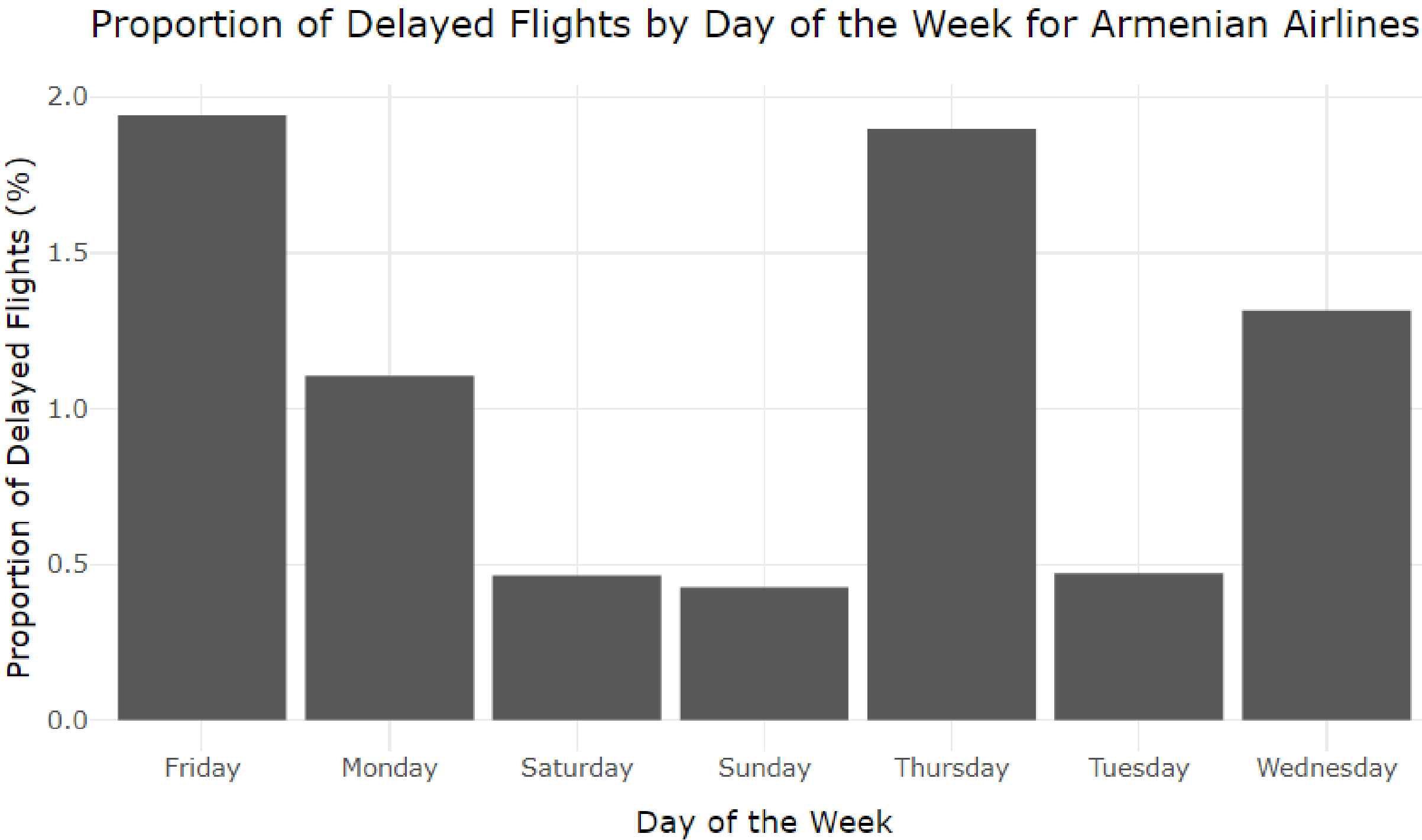




# Flight Delays Analysis for Armenian Airlines by Day of the Week

Select Airline

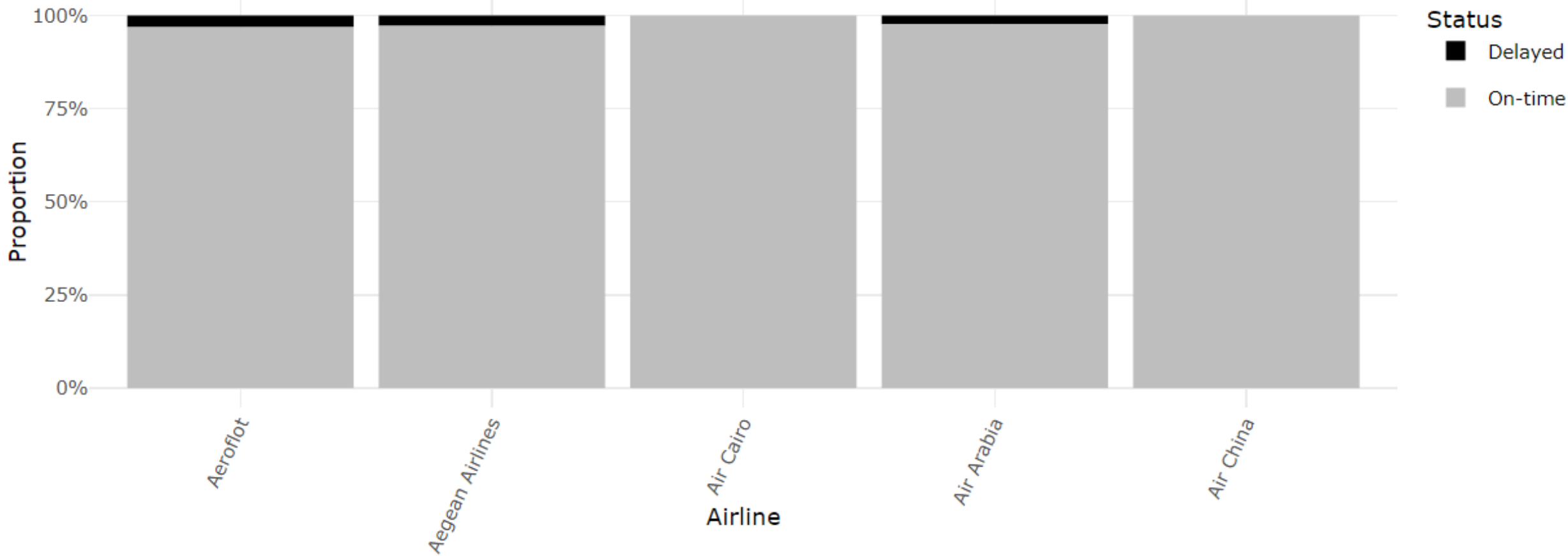
All

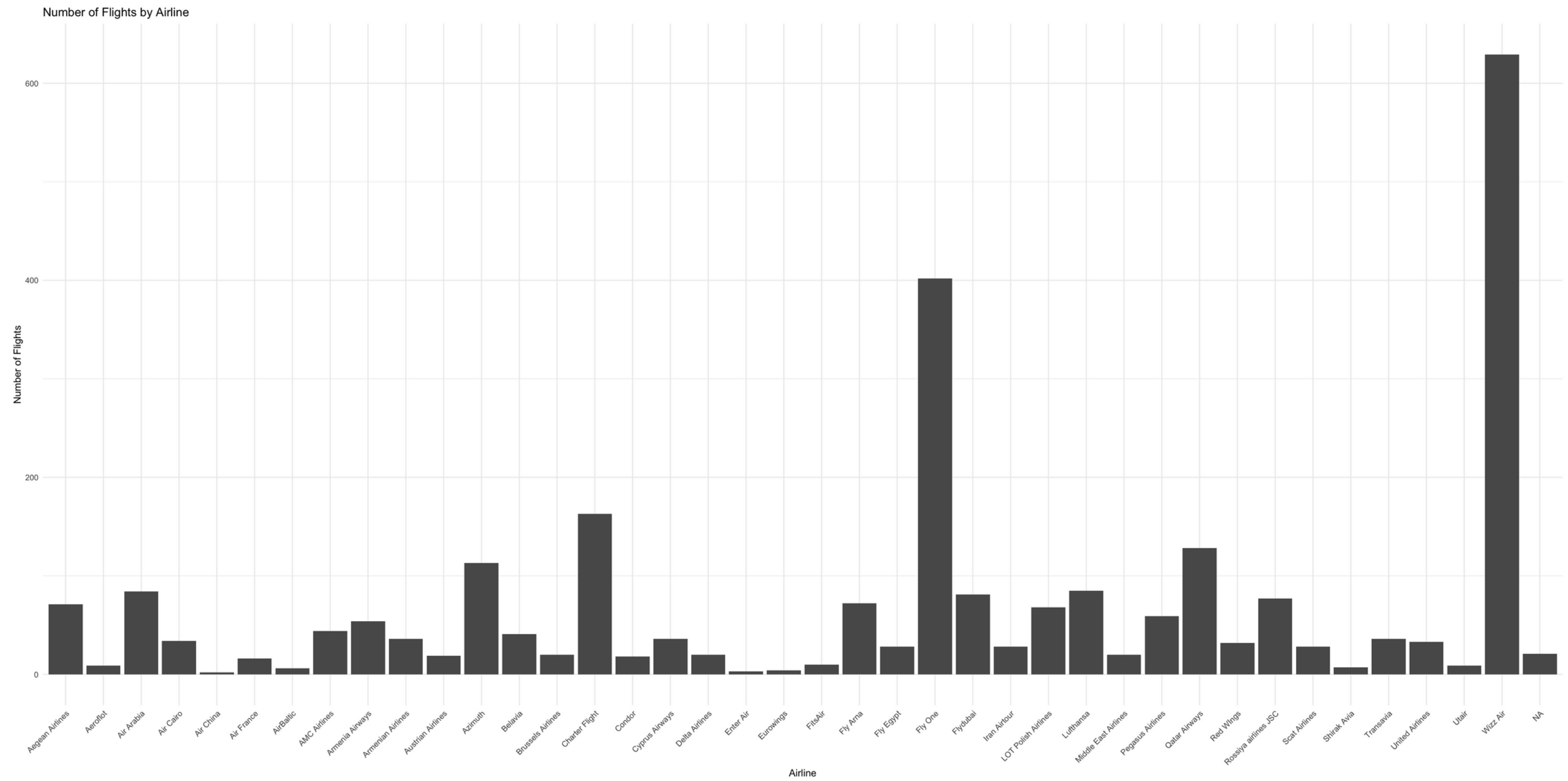


# Airline On-time Performance Comparison

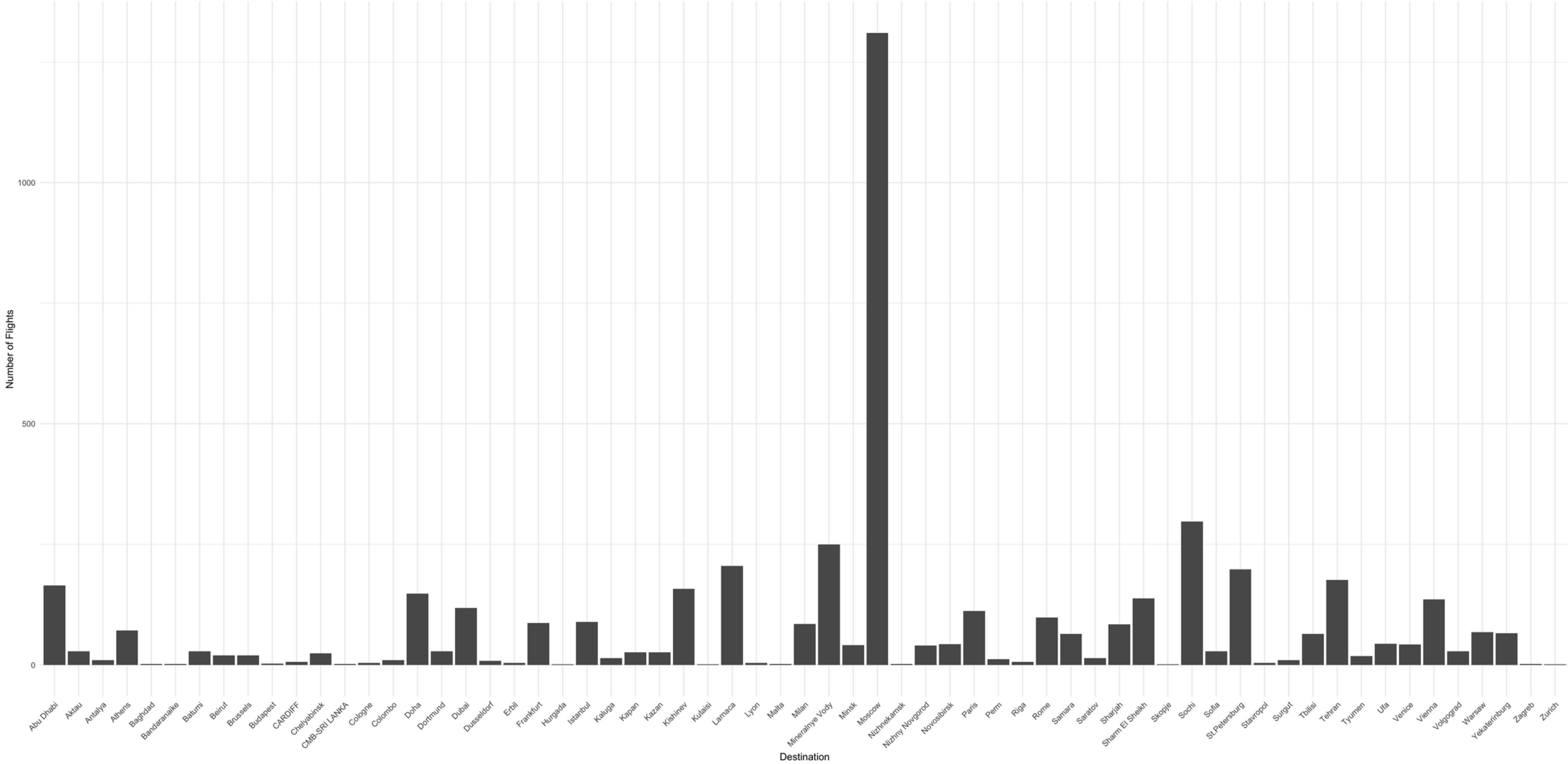
## Select Airlines

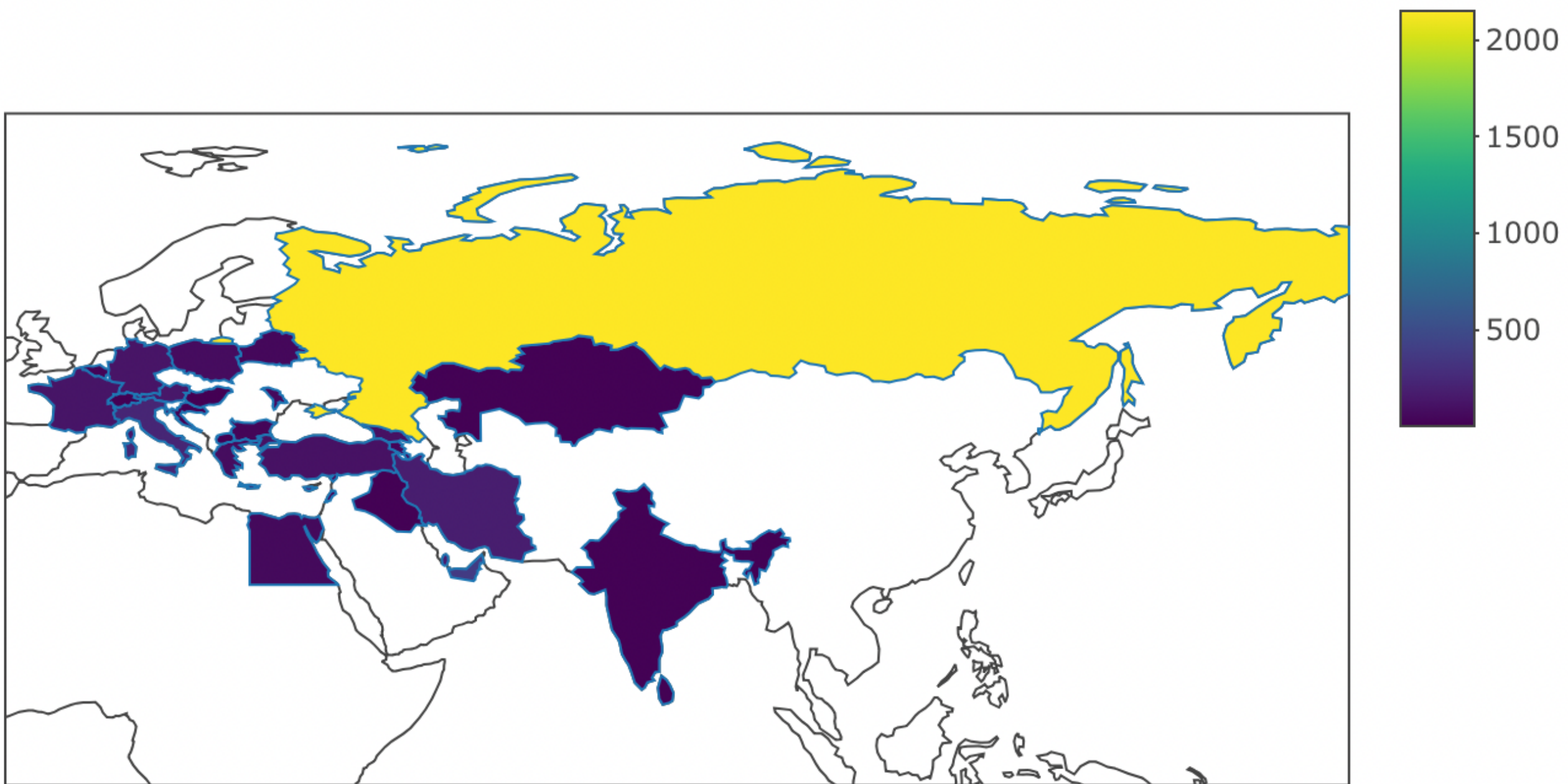
- ☒ Aegean Airlines
- ☒ Aeroflot
- ☒ Air Arabia
- ☒ Air Cairo
- ☒ Air China
- ☐ Air France
- ☐ AirBaltic
- ☐ AMC Airlines
- ☐ Armenia Airways
- ☐ Armenian Airlines
- ☐ Austrian Airlines
- ☐ Azimuth
- ☐ Belavia
- ☐ Brussels Airlines
- ☐ Charter Flight
- ☐ Condor
- ☐ Cyprus Airways
- ☐ Delta Airlines
- ☐ Enter Air
- ☐ Eurowings
- ☐ EVA Air
- ☐ FitsAir
- ☐ Fly Arna
- ☐ Fly Egypt
- ☐ Fly One
- ☐ Flydubai
- ☐ Iran Airtour

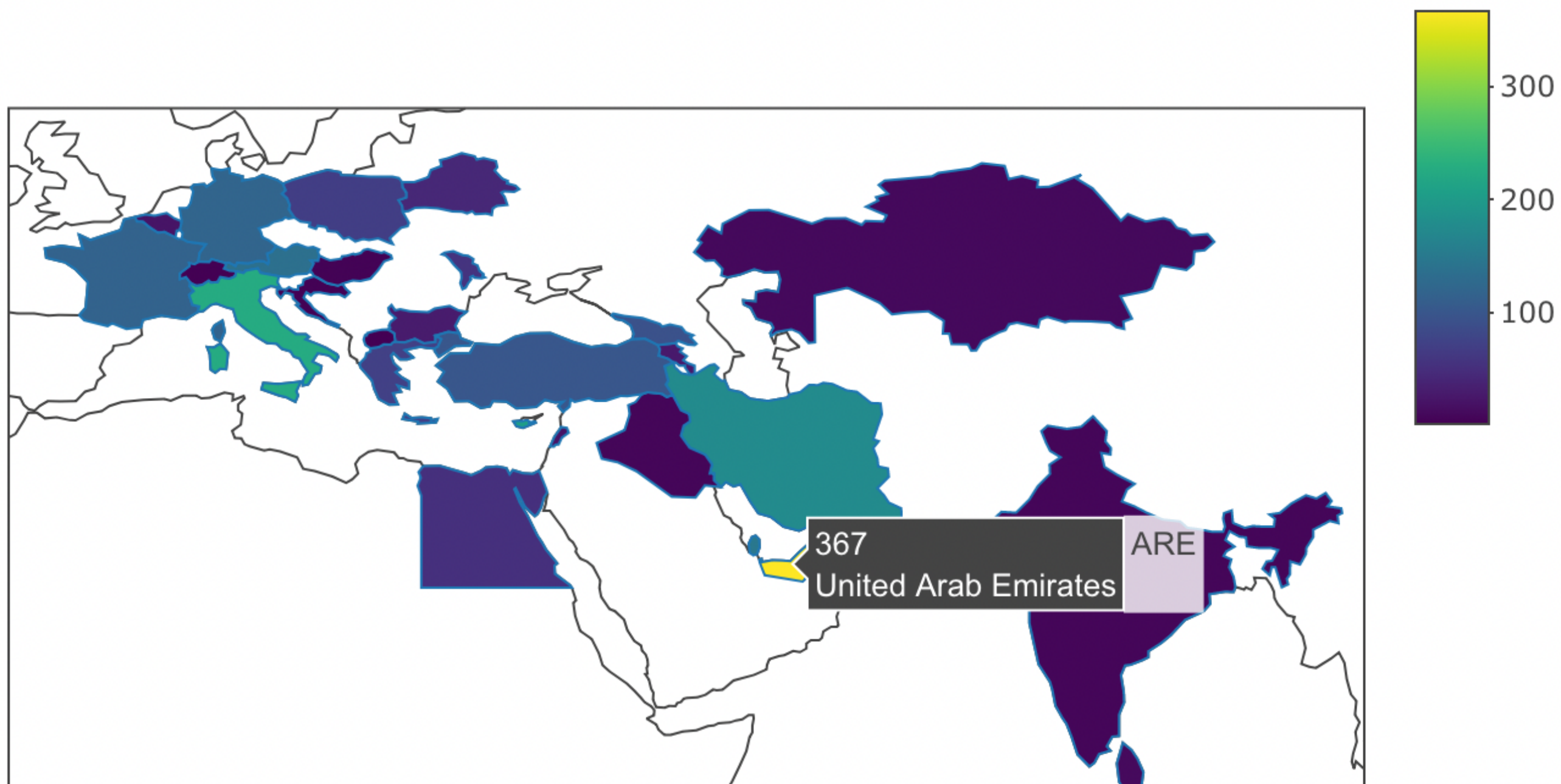




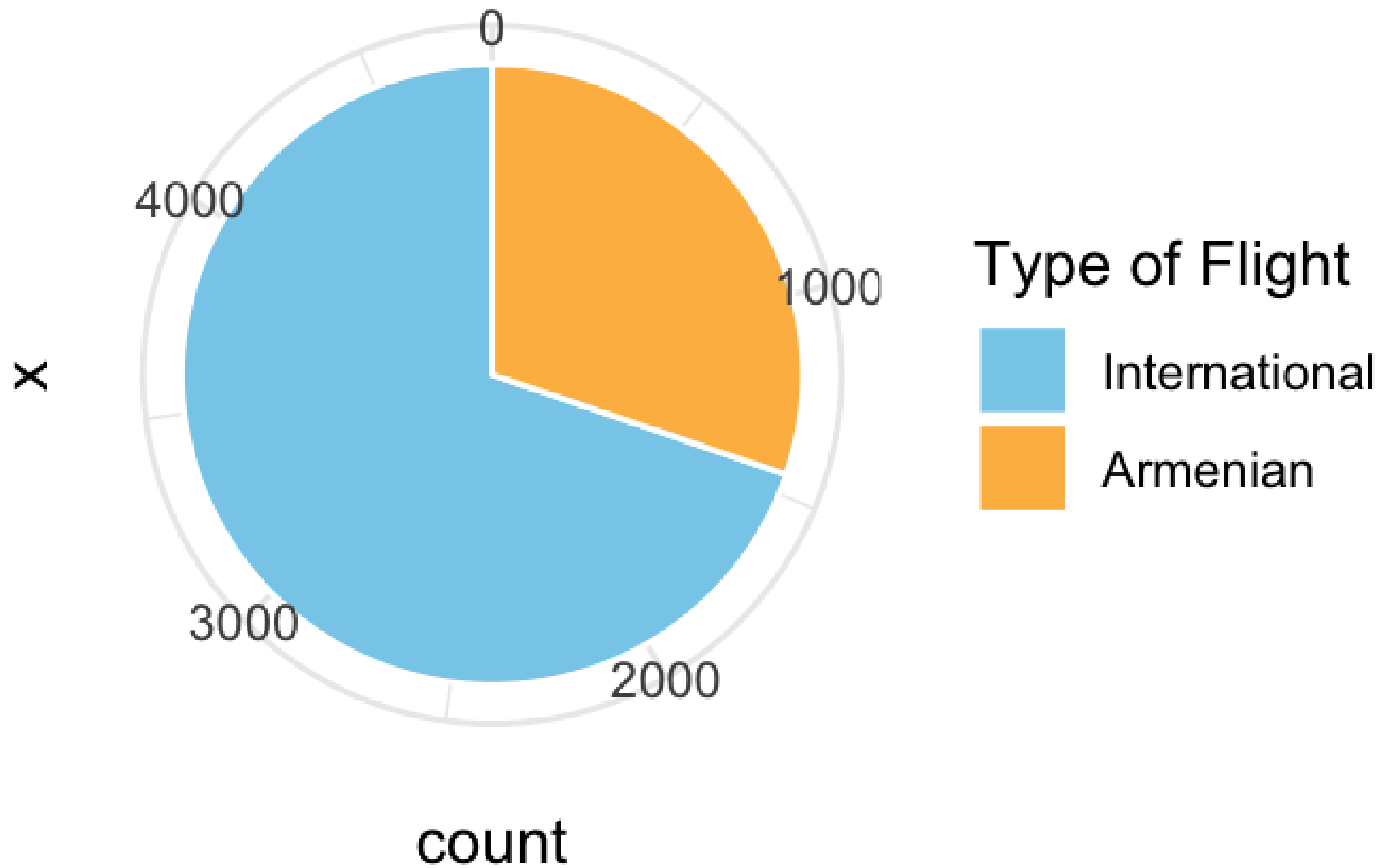
Distribution of Flights Across Destinations



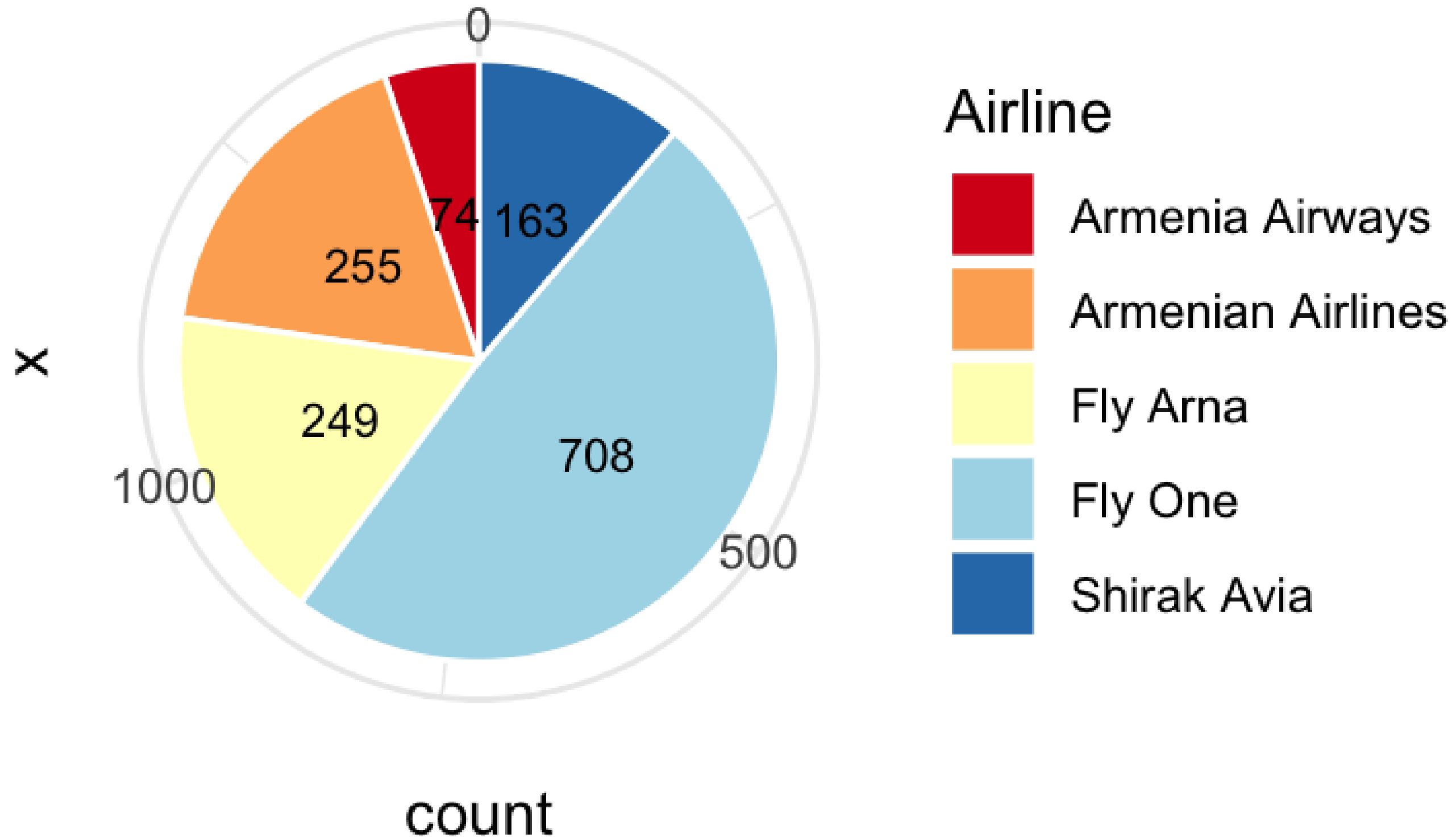




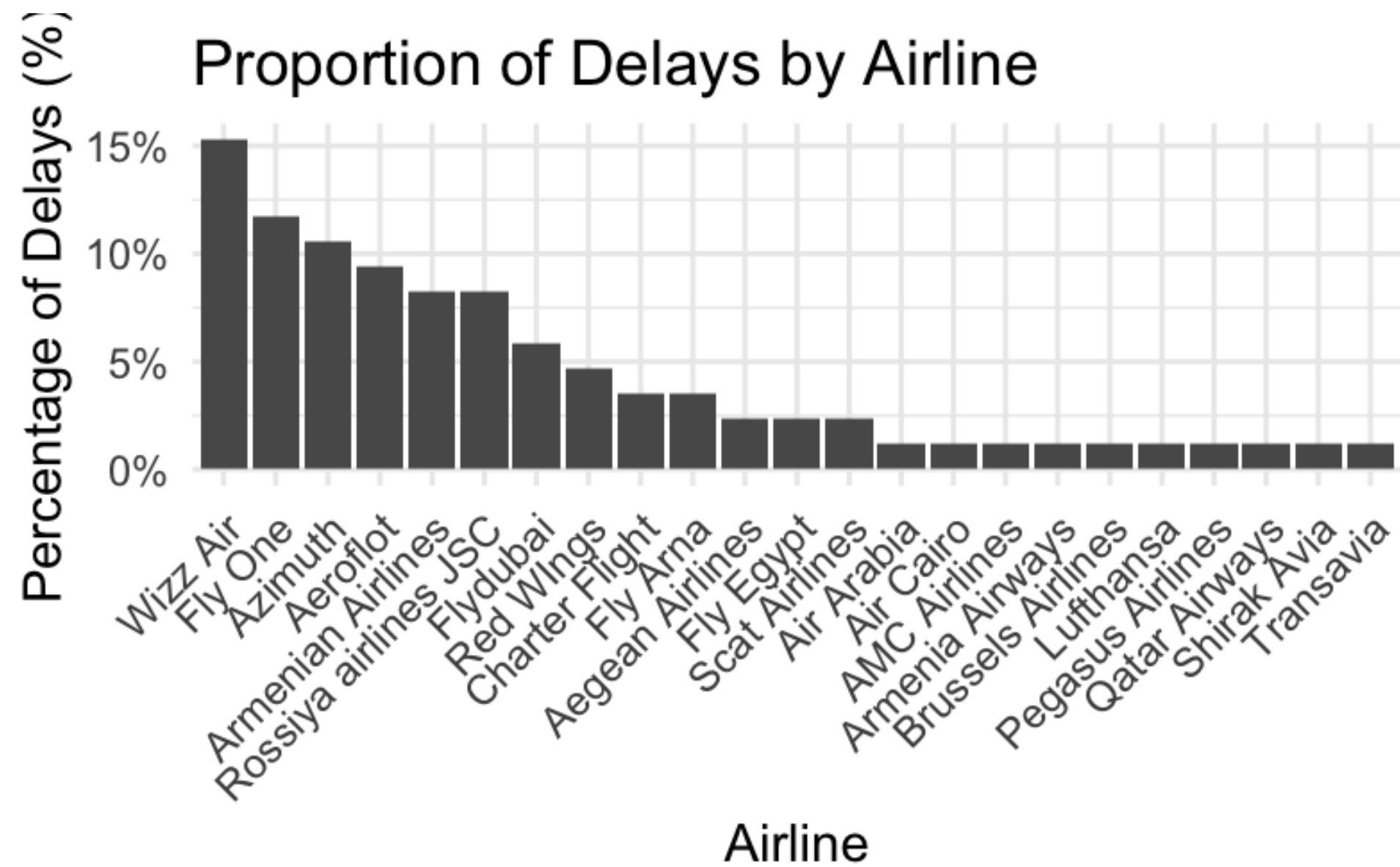
# Distribution of Armenian and International Fl

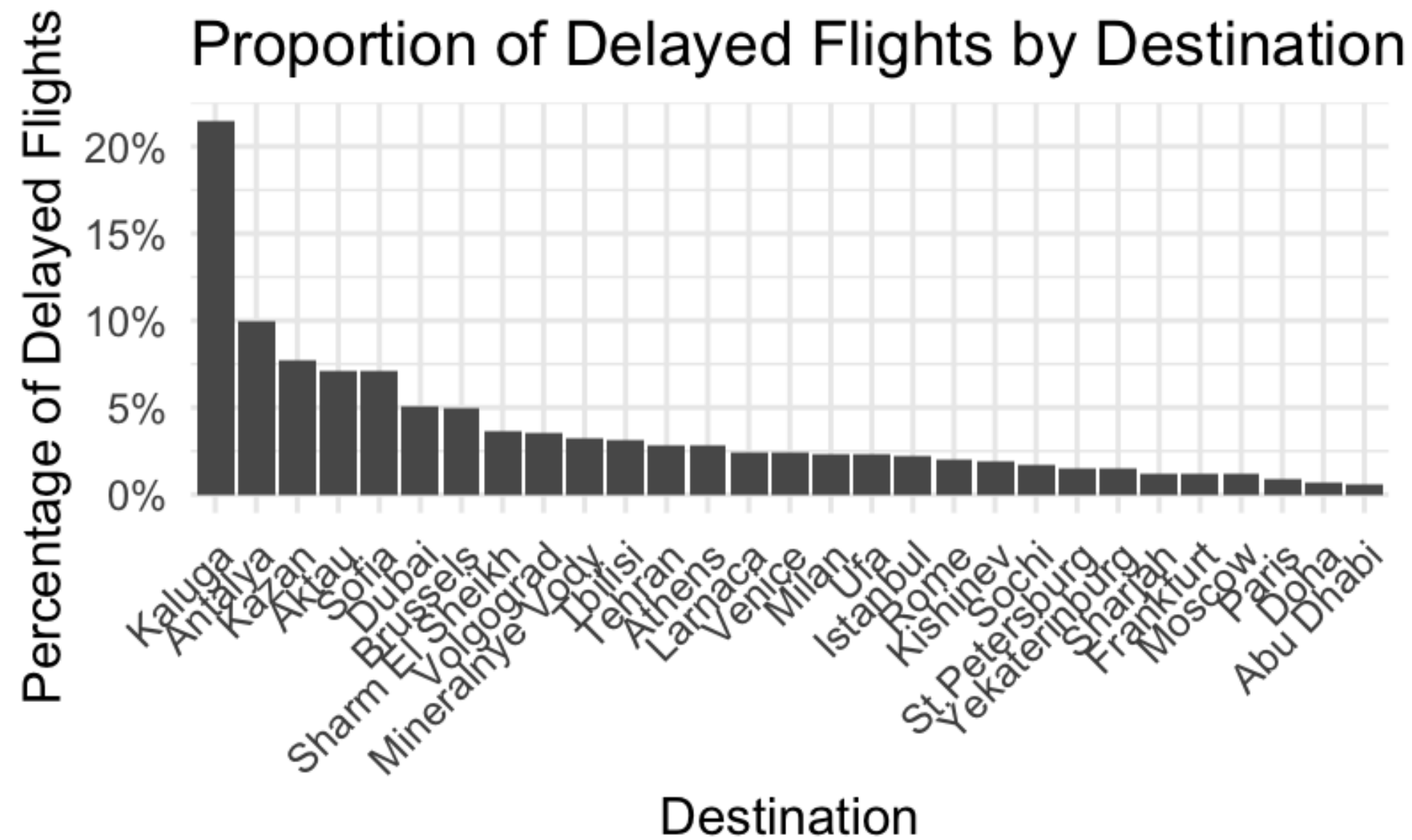


# Distribution of Flights Among Armenian Airline



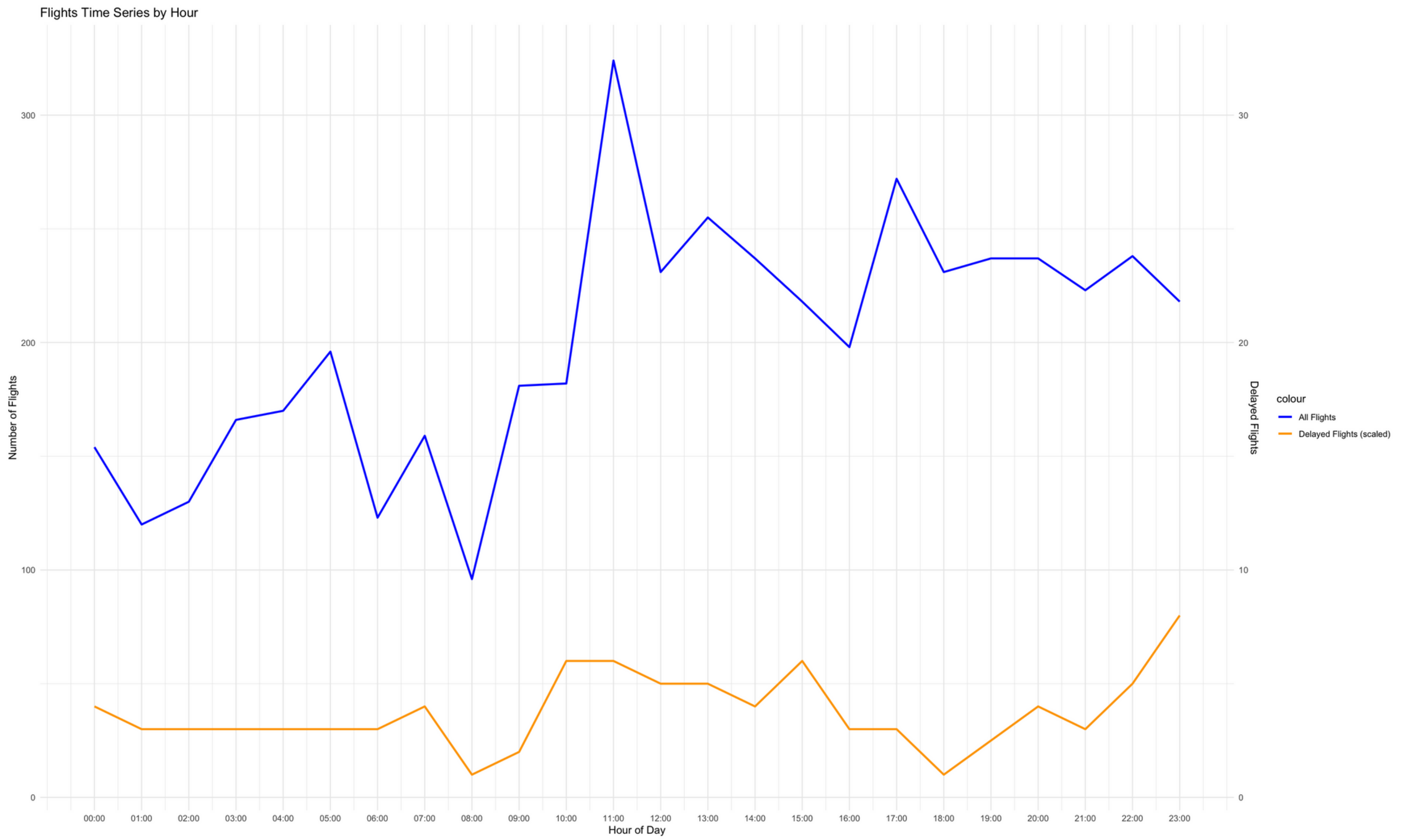






Flights Time Series by Hour





# Flight Delays and Weather Conditions Analysis

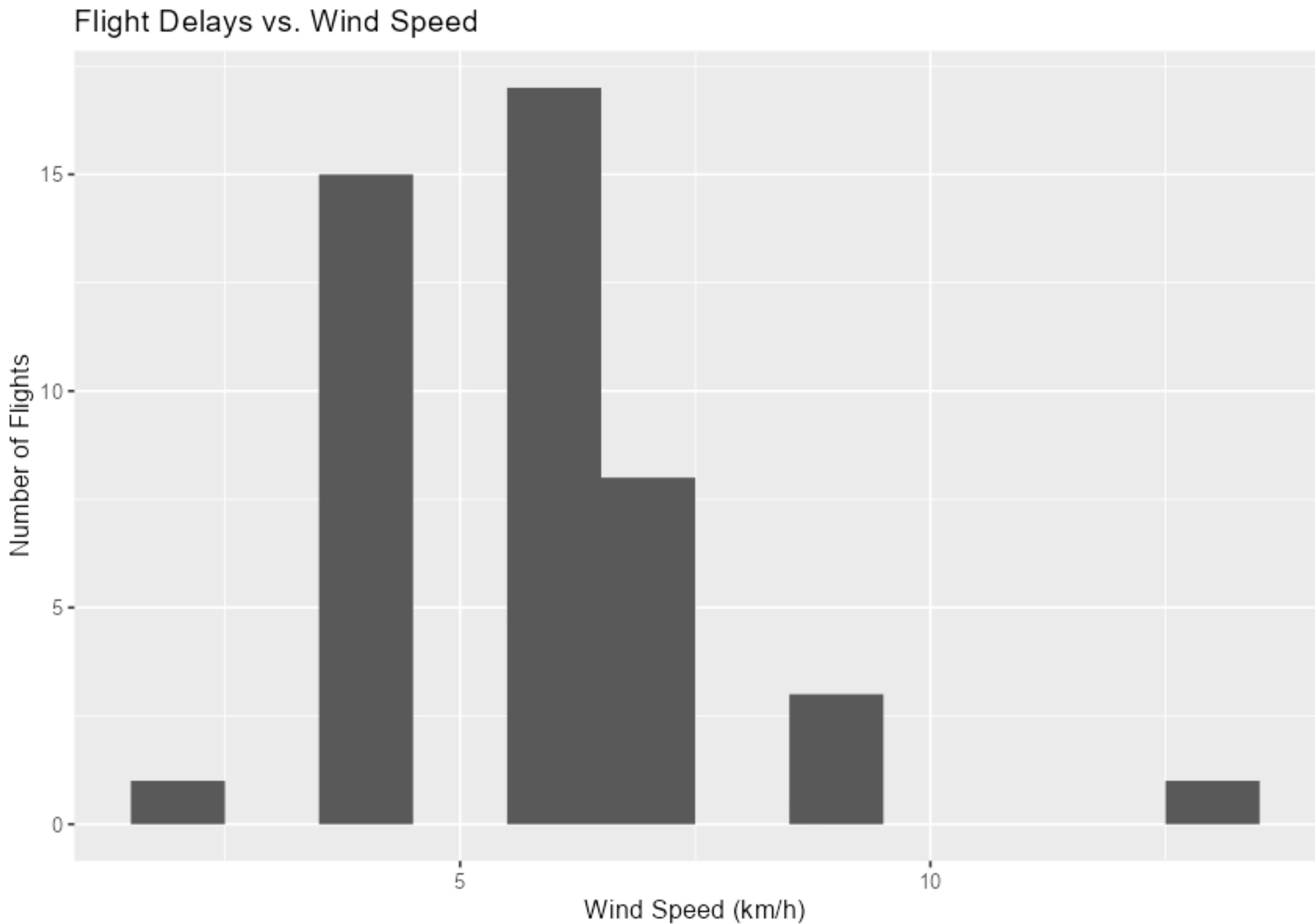
Select Flight Status:  

Cancelled

Select Wind Speed Range:  

2

13



Number of flights with status Cancelled : 45

# Flight Delays and Weather Conditions Analysis

Select Flight Status:

Delay

Select Wind Speed Range:

2

13

2

3.1

4.2

5.3

6.4

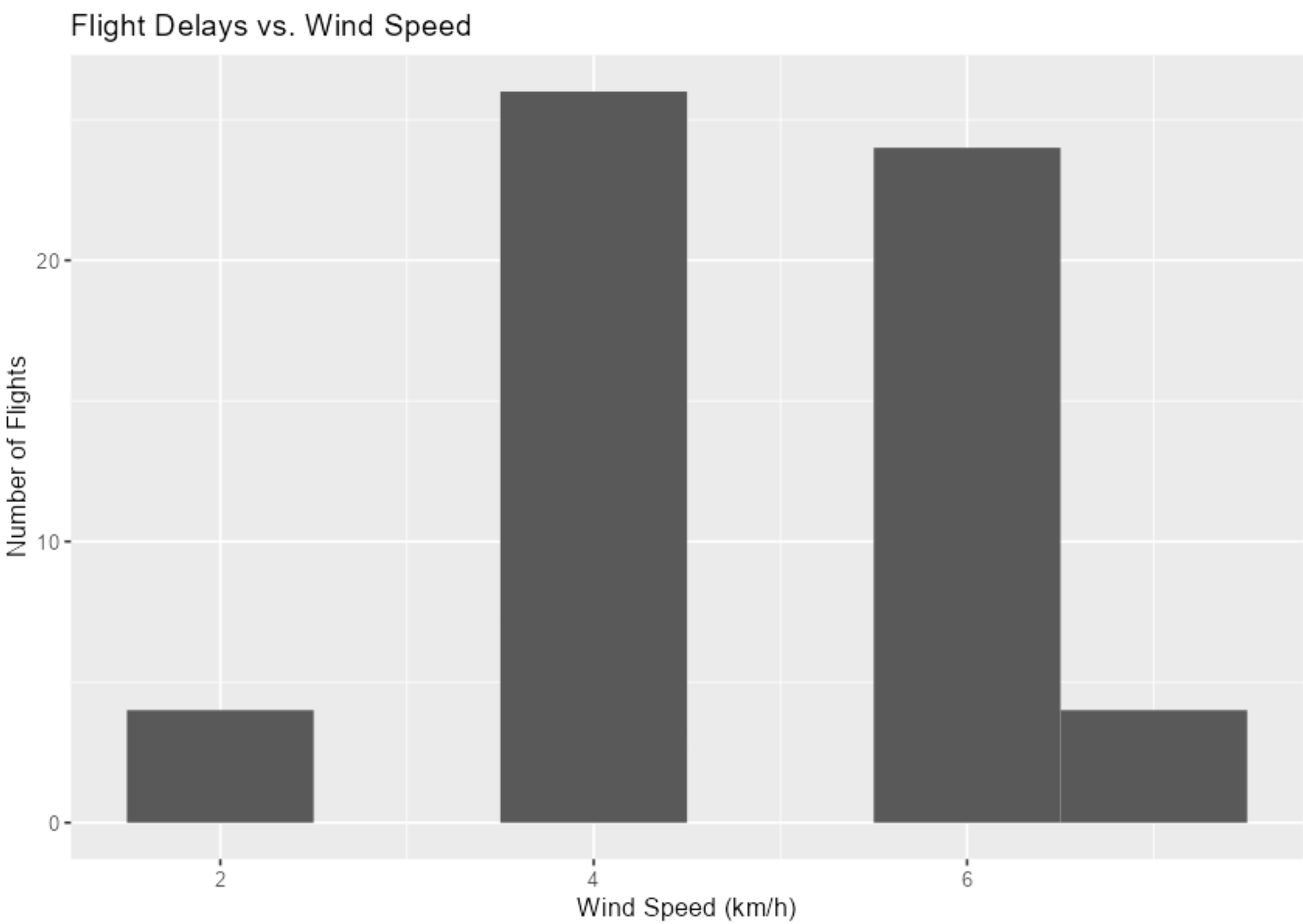
7.5

8.6

9.7

10.8

13



Number of flights with status Delay : 58