

Mitigating emissions from International Aviation

the question of historical
responsibility

June 2013

Historical responsibility in aviation

China IACO State Action Plan

“International air transport in developed states enjoys a longer history, a larger market-share worldwide and stable growth. Due to the historical contribution of their international aviation to global climate change, developed countries must shoulder their responsibility for their accumulative historical emissions and the current high level of per capita emissions”

Aviation wasn't around in 1850

Top historical emitters from 1850 include China, India, Brazil, South Africa

Top 20 historical aviation emitters; China, Singapore, R Korea, UAE, Thailand, Malaysia, Brazil

first flight 1903. first airline KLM 1919

First large jet Boeing 707 1960

first intercon Jet Boeing 747 1970

mass airtravel only took off in 1970

no country emissions data before 1990

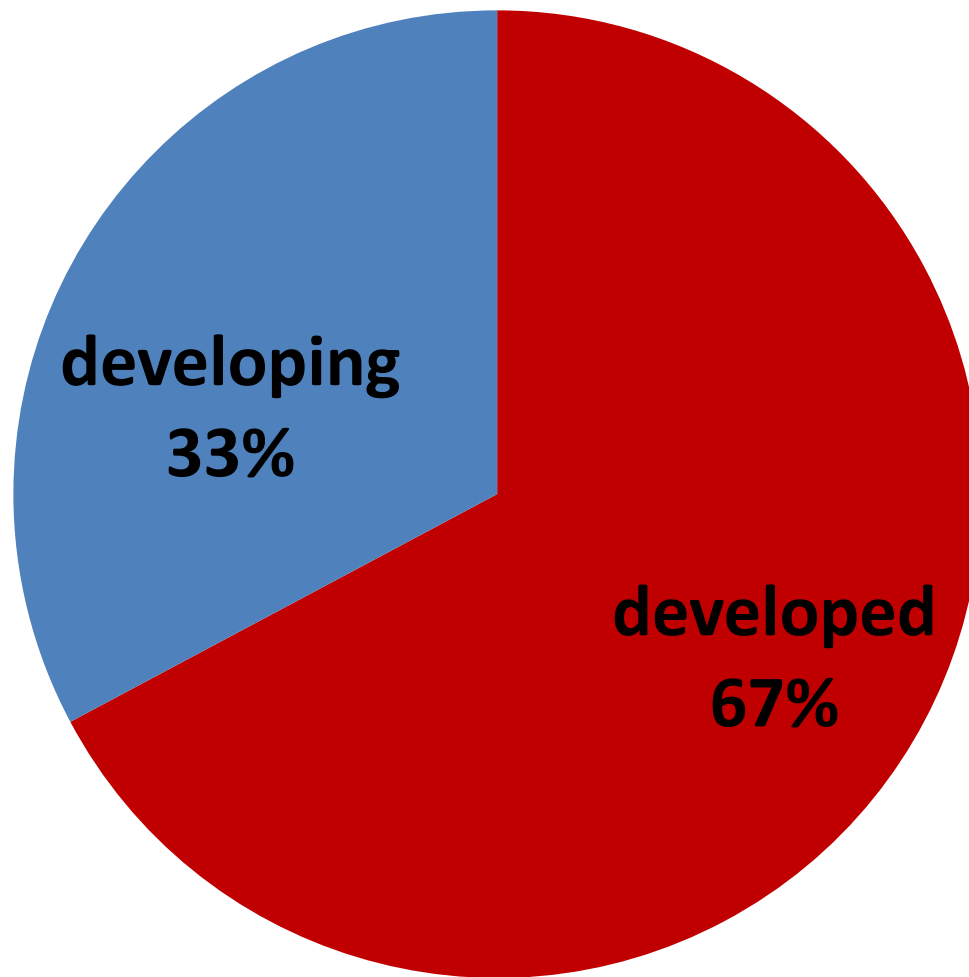
ICAO 2010 RTK by country 1974-2009

Cum Int RTK 1974-2009

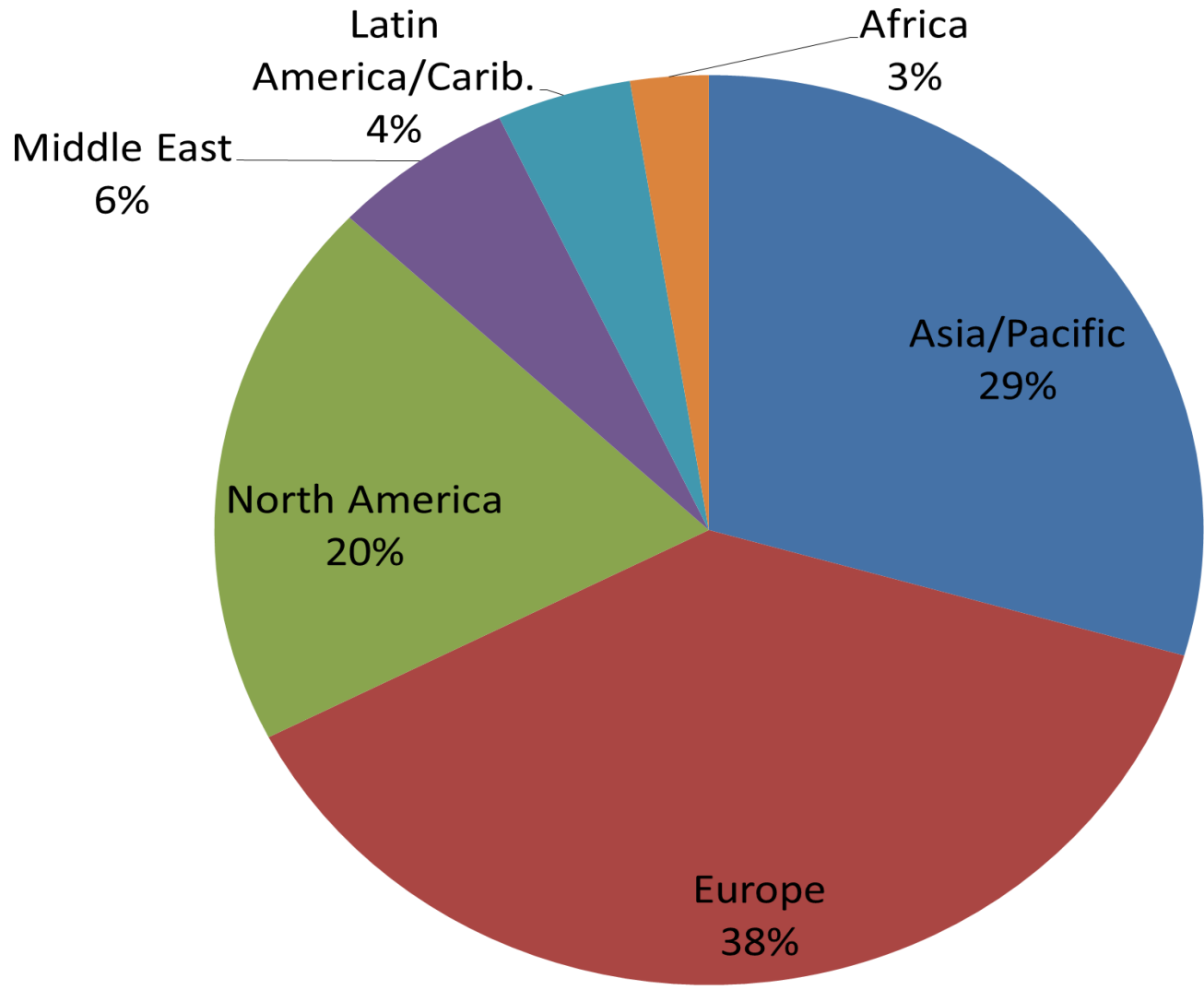
% Total

1	USA	17.04%
2	UK	8.29%
3	Germany	6.72%
4	Japan	5.67%
5	France	5.04%
6	China	4.40%
7	Singapore	4.23%
8	Netherlands	4.07%
9	R of Korea	4.05%
10	Australia	2.55%
11	Canada	2.24%
12	United Arab Emirates	1.92%
13	Thailand	1.85%
14	Italy	1.81%
15	Switzerland	1.64%
16	Spain	1.61%
17	Malaysia	1.45%
18	Russian Fed	1.23%
19	Brazil	1.19%
20	Scandinavia	1.09%

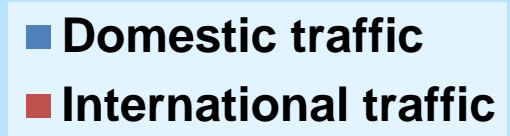
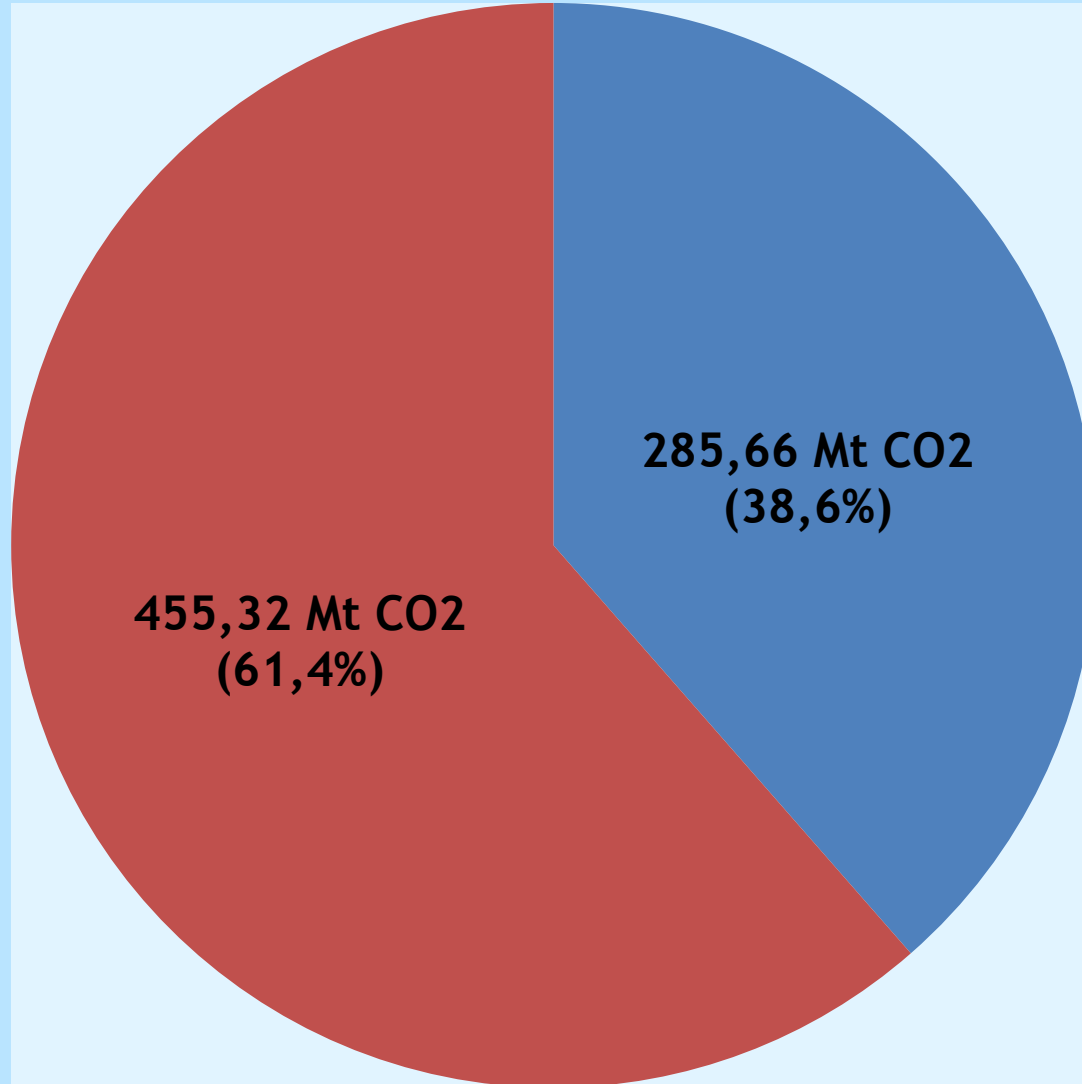
Cumulative International Aviation Traffic (1974 to 2009 RTK)



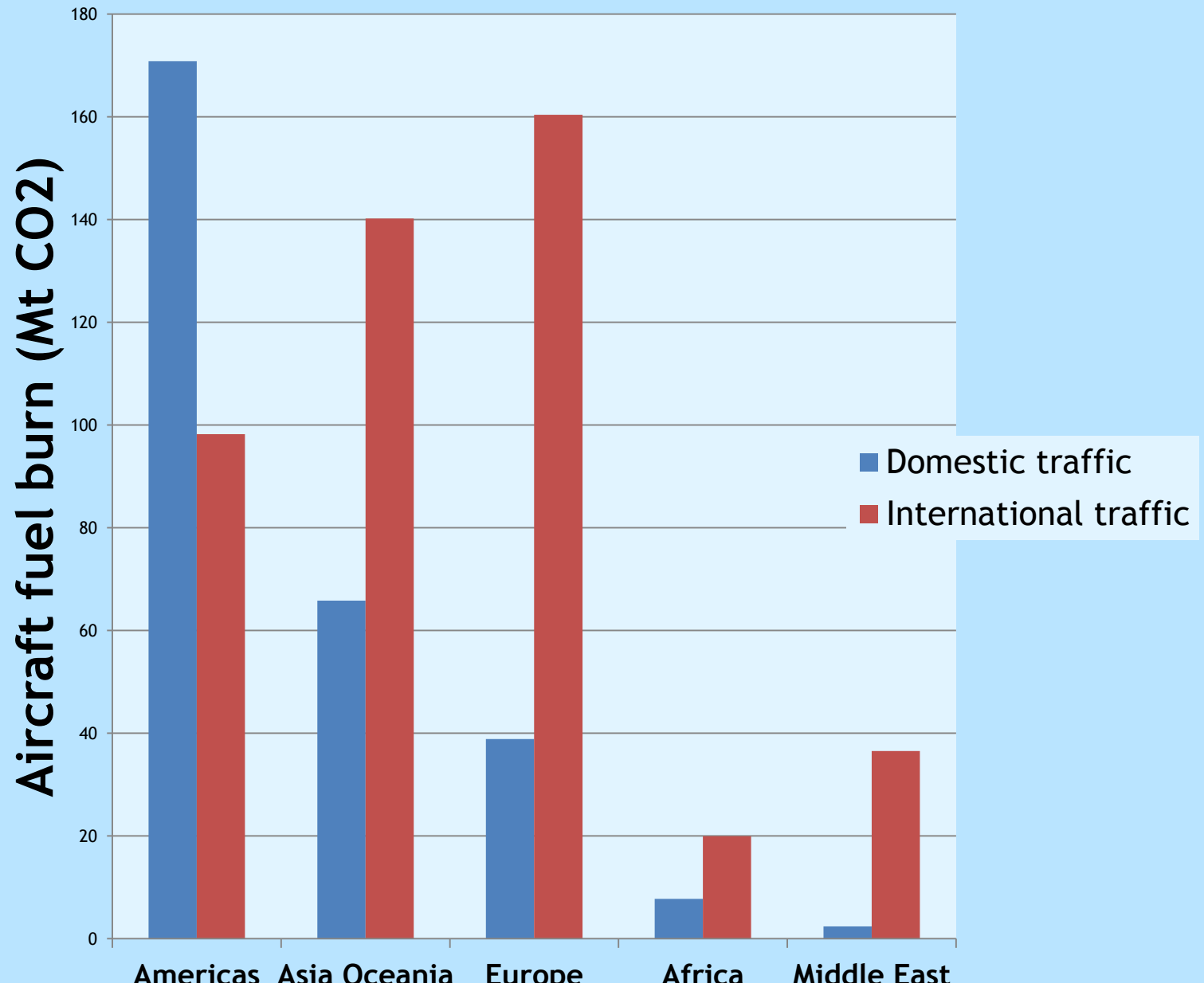
Cumulative International Aviation Traffic (1974 to 2009 RTK) by region



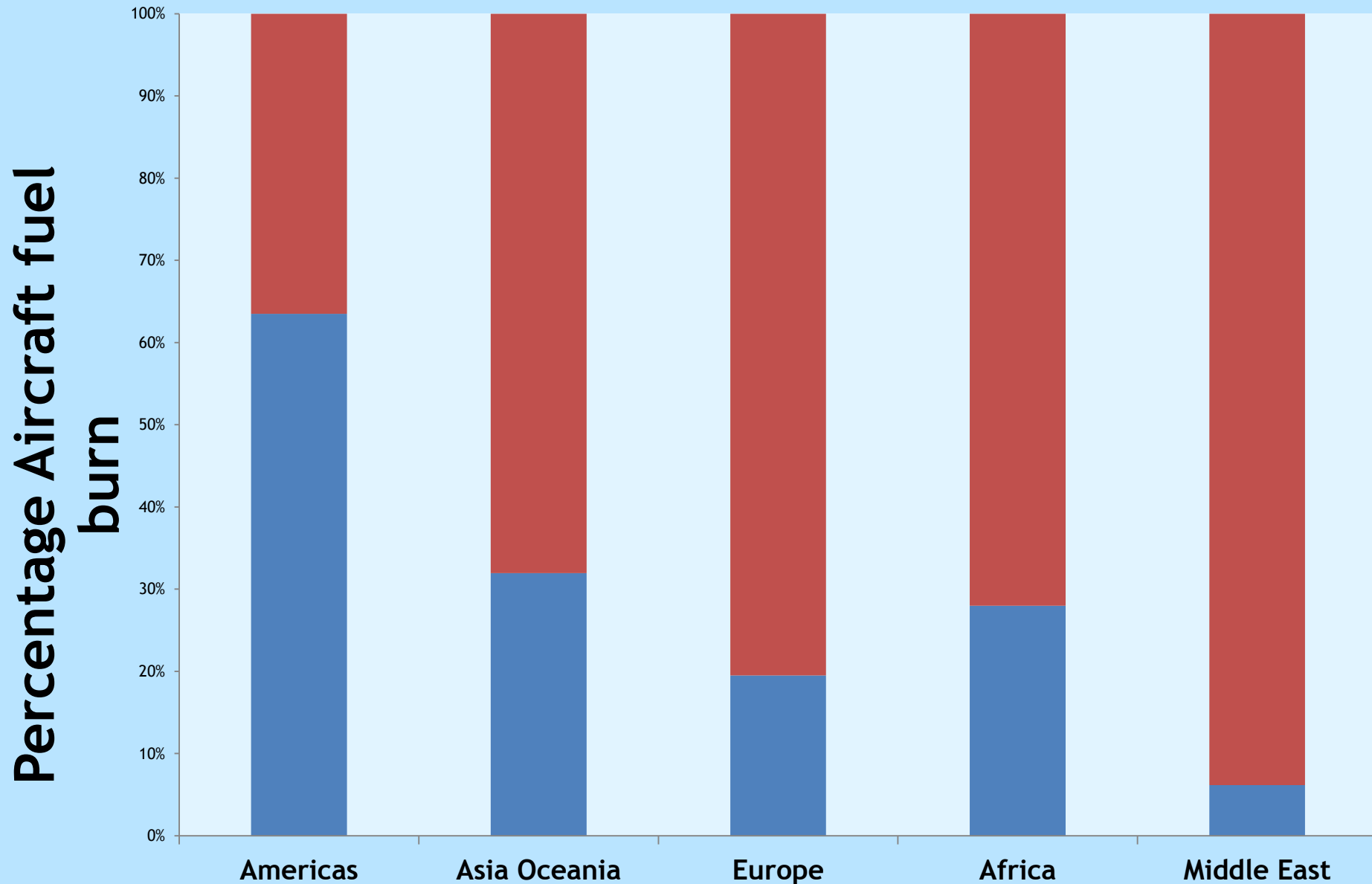
Int Domestic and International Fuel Burn 2010



Global Aviation Emissions 2010 by region



Fuel Burn by Region; 2010



Cumulative fuel burn by region 2020 to 2050

