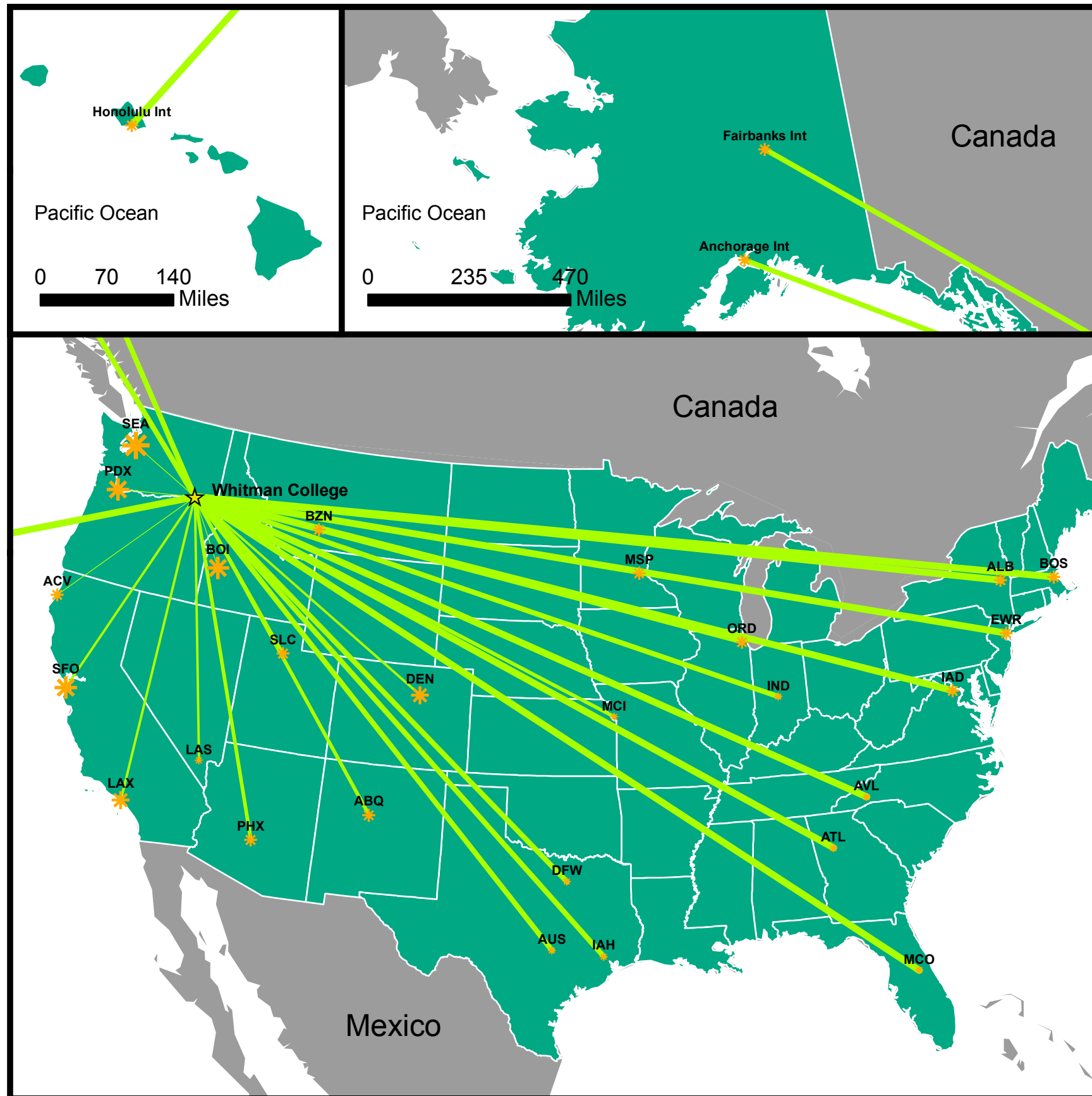


Whitman College Student Air Travel Carbon Emissions

Airports were selected based upon proximity to clusters of student home zip codes, on the assumption that students would chose to fly or would eventually fly from major airports to reach Seattle-Tacoma International. All flights pass through Seattle-Tacoma International as it is the only major airport to service Walla Walla Regional on a daily basis. For simplicity, this map illustrates direct flights from the starting location to Walla Walla disregarding all change overs.

The thickness of the line represents the estimated CO2 Emissions of flying to Seattle. Emission totals are in Metric Tons of CO2, provided by <http://www.carboncounter.org/>, assuming a one way flight, flight miles calculated by <http://www.webflyer.com/>.

"To calculate Exact air travel emissions, the calculator multiplies the entered total number of miles flown in a year by 1.3068, [25] which is the total climate impact of one air-passenger mile, expressed in pounds of carbon dioxide. The result is then divided by 2,205, the number of pounds in a metric ton."



# of Students	
*	2 - 9
* *	9 - 36
* * *	36 - 59
* * * *	59 - 230
* * * * *	230 - 477

Metric Tons of CO2	
Thin line	0.0800 - 0.320
Medium-thin line	0.321 - 0.600
Medium-thick line	0.601 - 0.880
Thick line	0.881 - 1.11
Very thick line	1.12 - 1.66

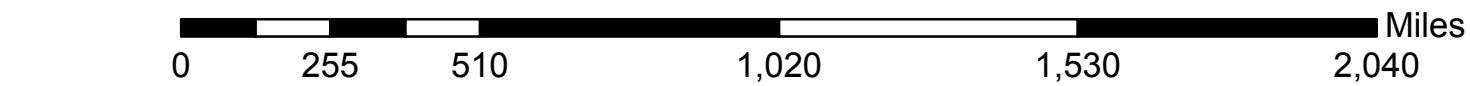
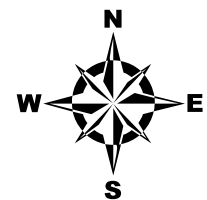
US ZIP Code Areas:
 ESRI® Data & Maps, 2005
 Tele Atlas North America, Inc./Geographic Data Technology, Inc., ESRI

US Airports:
 ESRI® Data & Maps, 2005
 National Atlas of the United States and the United States Geological Survey, ESRI

Airmiles:
<http://www.webflyer.com/>

Air CO2 Emissions
<http://www.carboncounter.org/>

Coordinate systems for Continental US, Alaska and Hawaii, respectively:
 USA Contiguous Albers Equal Area Conic, NAD 1927
 Alaska Albers Feet, NAD 1983 HARN
 State Plane Hawaii 1 FIPS 5101.



Alyssa King
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