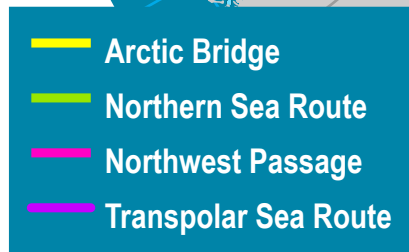
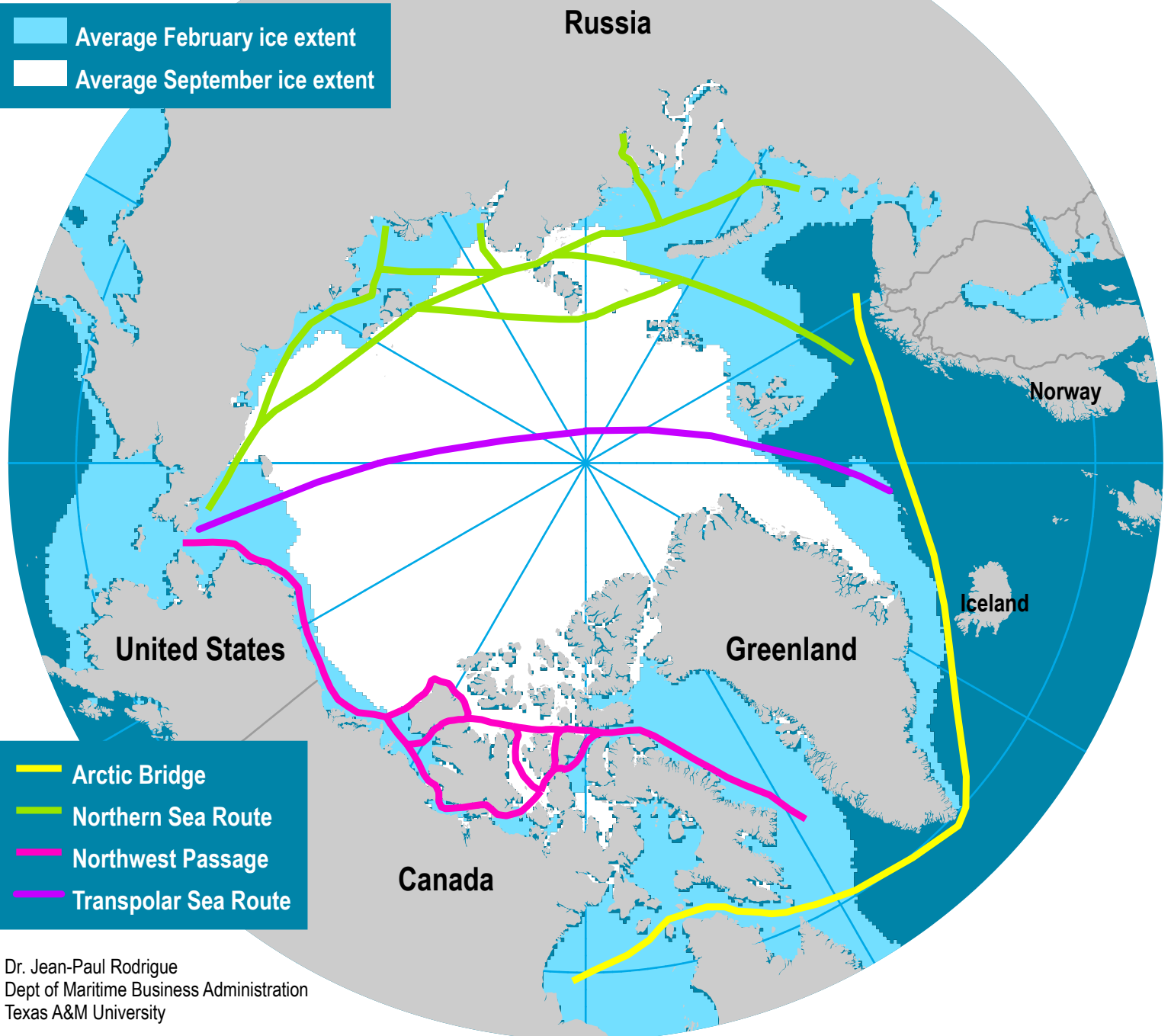


Polar Shipping Routes



Dr. Jean-Paul Rodrigue
Dept of Maritime Business Administration
Texas A&M University