

China Civil Aviation Development Forum 2007 10 May 2007 - Beijing

Expanding into the Chinese Market: Opportunities and Obstacles

John W. Dietrich Executive Vice President & Chief Operating Officer Atlas Air Worldwide Holdings





- Polar Air Cargo
 - Corporate Structure
 - Route Structure
 - Entry into the China Market
- **Opportunities**
 - Improved Regulatory Environment
 - Improved Infrastructure
 - Booming Economy
 - Long Term Growth
- Obstacles
 - Operational & Regulatory Constraints
 - Trade Imbalance
 - Seasonality
 - Fuel Cost







- → Atlas Air Worldwide Holdings, Inc. ("AAWW") is the parent company of Polar Air Cargo, Inc. and Atlas Air, Inc.
- → Together, Polar Air Cargo and Atlas Air operate the world's largest fleet of Boeing 747 freighter aircraft.
- Atlas Air, Inc. is primarily an ACMI carrier providing fully dedicated aircraft to primarily international airline customers (e.g., Emirates, Qantas, Air New Zealand)
- Polar is a Scheduled Service operator providing global scheduled service for primarily the shipping and freight forwarding community
- → Both Polar Air Cargo & Atlas Air provide full aircraft charter services (civil and military)
- → AAWW has a combined total fleet of 37 B747 Freighters:
 - > 20 x B747-400F
 - > 17 x B747 Classics
 - Orders placed for 12 new B747-8 Freighters
 - Options on a further 14 x B747-8 Freighters

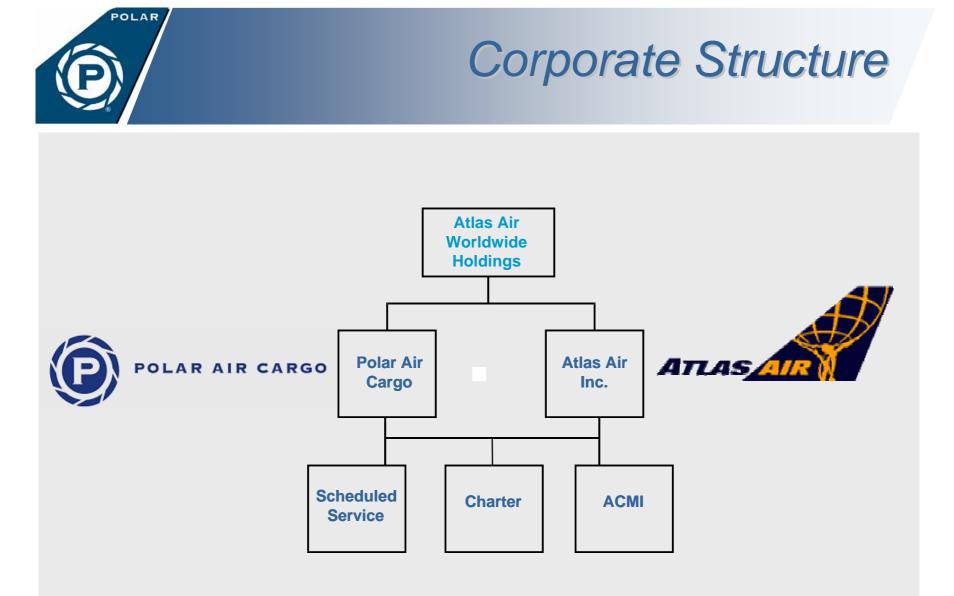






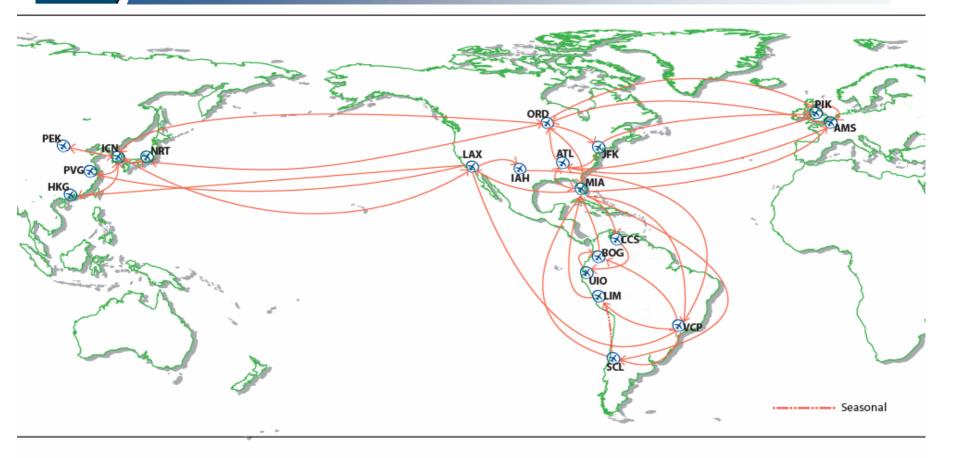
- → Polar was established in 1994
- → AAWW acquired Polar Air Cargo from GE in 2001
- Polar is a global scheduled service airline with valuable traffic rights throughout the world, including, China, Japan (and other intra-Asia rights) and Brazil
- Current operating fleet consists of 6 x B747-400 freighter and one B747 Classic; supplemental capacity is provided by Atlas Air, Inc. as needed
- → Based in Purchase, New York, with sales and operations offices throughout the world (e.g., LGB, UK, AMS, HKG, PVG, PEK)











Updated: 04/19/07



POLAR



Polar Air Cargo Development on Mainland China

- ✤ In July 2004, the PRC and USA expanded the bilateral agreement to allow for additional designated carriers
- ✤ In October 2004, Polar Air Cargo was awarded the designation as the fifth US Flag Carrier to operate in China
- → Polar was initially awarded 6 frequencies in October, 2004
 - > 3 frequencies awarded in March 2005
 - > 3 frequencies awarded in March 2006
 - ➤ 4 frequencies awarded in March 2007
- ✤ Total of 16 frequencies awarded







- Polar Air Cargo
- **Opportunities**
 - Improved Regulatory Environment
 - Improved Infrastructure
 - Booming Economy
 - Long Term Growth
- Obstacles





Airfreight Developments in China

→ Air cargo prospects were boosted in 2004 when the US and China agreed to expand bilateral rights for all-cargo carriers (111 additional weekly all-cargo flights phased in between 2004 and 2010).

→ Going forward, CAAC predicts a double-digit average annual growth rate per year.

→The 11th 5 year plan focuses heavily on providing the infrastructure necessary to support the exponential growth in manufacturing.

→ CAAC predicts China to be the largest air cargo market in Asia by 2010, and the 2nd largest in the world by 2020.



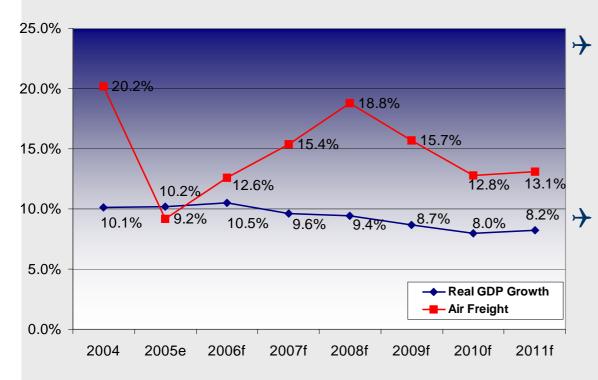


Polar Air Cargo CAAC & PRC Support

- → CAAC has improved efficiencies and processes in the development of air transportation:
 - More timely approvals for charter and scheduled operation applications
 - Infrastructure projects to support growing air cargo demand (e.g., new runway at PVG, new runway at PEK)
 - > Further efforts to liberalize air space for civilian air operations
 - ✓ IATA has been lobbying the Chinese authorities to liberalise the country's air space, with only a portion of China's air space open to civil aviation operations, making it one of the world's most restricted countries.







- The fastest growing
 economy of the world,
 China's GDP is
 forecasted to avg. around
 8.8% for 2007-2011.
 - Forecast air freight will continue to outpace the economy as a whole, reaching avg 15.1% p.a.



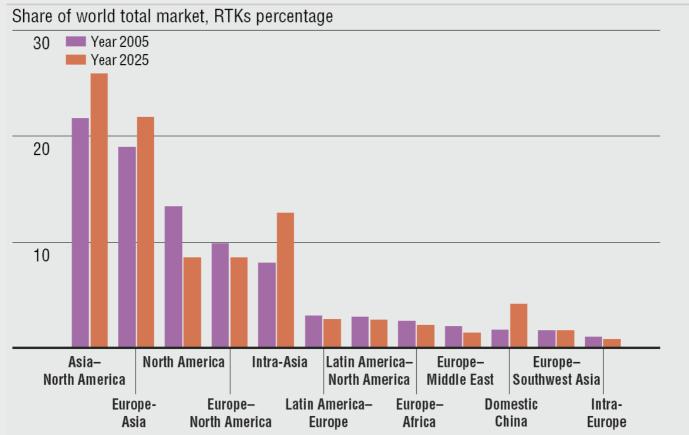
POLAR

page 11

Data Source: Business Monitor International – China Forecast Q4 2006

POLAR Asia Air Cargo 2005 & 2025 Asia – The Fastest Growing Trans-Pacific Air Cargo Market

North America – Asia route set to dominate the World Air Cargo market



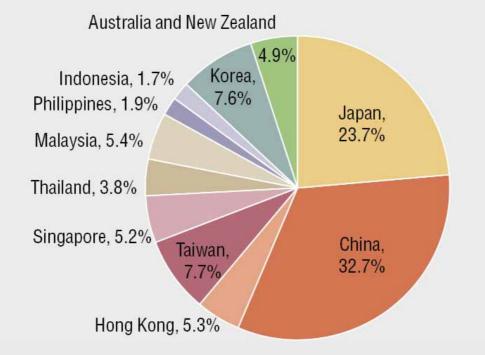


page 12

Data Source: Boeing – World Air Cargo Forecast 2006



China accounts for 32.7% share of the Asia-North America air cargo market (tonnage) in 2005



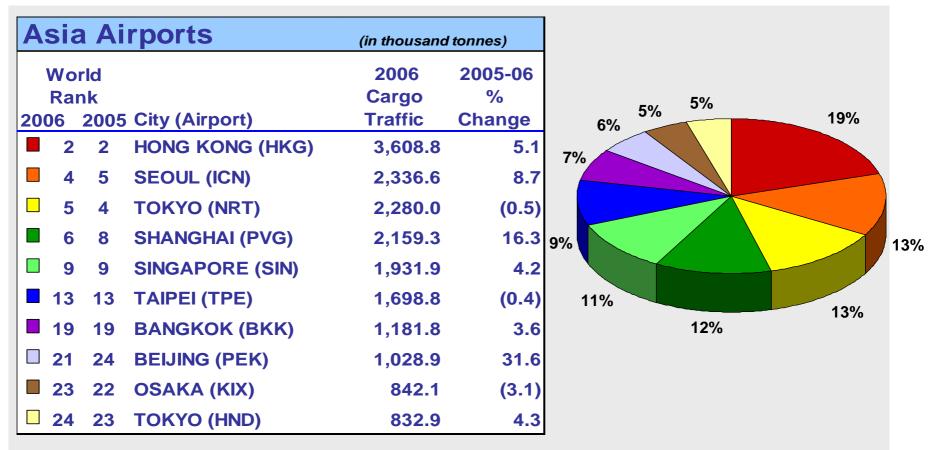


page 13

Data Source: Boeing – World Air Cargo Forecast 2006



Asia's Top 10 Cargo Airports in 2006





page 14

Data Source: Airports Council International – March 2007



Polar Air Cargo Mainland China

- → 23 Charter flights in 2003
- → 28 Charter flights in 2004
- → Scheduled Service commenced in Dec 04
- → December 2004 6 flights per week PVG
- → March 2005 9 flights per week PVG
- → March 2006 12 flights per week PVG
- → March 2007 16 flights per week
 - > 10 flights per week PVG (reduced service in Nov 06)
 - > 2 flights per week PEK (began service in Nov 06)
 - ➤ 4 flights pending an award of daytime slots at PEK





Polar Air Cargo Shanghai

Why Shanghai?

- → Air cargo throughput is:
 - 1st in Mainland China
 - ➤ 4th in Asia
 - ➢ 6th in the world

→ Yangtze River Delta catchment area

→ Great future

- completion of the new runway and ramp space in 2009
- air cargo throughput in 2015 estimated to reach 4.0 million tons



page 16

Source: 2nd China Air Cargo Summit 2005 – Airport Dept. CAAC & Airports Council International – March 2007



Polar Air Cargo Beijing

Why Beijing?

- → Air cargo throughput was the 2nd strongest in Mainland China and the 1st in northern China air cargo market in 2005
- → Ranked #8 and #21 in Asia and the world in 2006 respectively with a 31.6% growth of cargo traffic over 2005
- → Great future supportive government aviation policy, massive infrastructure projects underway, fast economic development











- Polar Air Cargo
- **Opportunities**
- Obstacles
 - Operational and Regulatory Constraints
 - Trade Imbalance
 - Seasonality
 - High Fuel Costs







Operating and Regulatory Conditions need to be in line with the growing business volumes in China:

- Slots (landing/take-off procedures)
- Infrastructure (runways, ramp space, warehousing)
- Air Space (overflight, entry/exit points, approaches, vertical separation)
- Customs (consistency in rules, allow trans-loading)





CAAC Challenges: Preparation for the Games

- A number of initiatives are being considered to accommodate the 2008 Olympic Games in Beijing.
- → Air traffic in China is expected to increase by at least 50% by 2008, with the Games generating an additional 15%.
- Minister Yang Yuanyuan of the CAAC has urged the air traffic control department to study airspace issues and has said, 'The key issues include adjusting air routes over Beijing during the Games, redesigning air routes for departing planes and planes flying through the capital's air space and improving air routes in neighboring areas.'
- → CAAC also plans to apply the RVSM (reduced vertical separation minimums) system to handle increased air traffic.
- Another measure is to set up an air control region in Beijing before the end of this year, with terminals shared by both the military and the civil aviation department. IATA, which helped the Athens and Sydney organizers with air traffic control during the last two Games, said it would do the same with Beijing.
- → We hope these measures would not be temporary.



page 21

Source: China Daily /China Logistics News



Import / Export by Value (US\$ billion)

2,000 140 1,800 120 1,600 100 1,400 1,200 80 1,000 60 800 600 40 400 20 200 0 0 20101 20061 20071 20081 200⁹¹ 2005 *200*3 2004 China exports ____ China imports ____ Trade balance



page 22

Trade Balance

(US\$ billion)

Data Source: Business Monitor International – China Forecast Q3 2006



US-China Trade Imbalance

- → Following a record high in 2006, the most recent data suggests that mainland's trade surplus is expected to surge even further in 2007.
- ➔ If realized, the PRC-US trade surplus will be greater than 2-1/2 times the figure recorded two years ago (more than US\$250 billion)
- → The mainland's trade surplus for the first quarter almost doubled year on year. The surplus widened to US\$46.4 billion, from US\$23.3 billion a year earlier in the first quarter, according to figures from the General Administration of Customs.



page 23

Source: South China Morning Post, 3 May 2007





Imbalance in Import / Export in the airfreight market is caused by the nature of the goods: Export = Primarily High Tech goods = Air Freight

Import = Primarily Raw Materials = Ocean Freight



page 24

Source: China's Ministry of Commerce



Trade Imbalance China and Asia

- Most of China's imports by value from the US are not flying on airplanes
 - ✓ Microsoft Software
 - ✓ Boeing Aircraft
 - ✓ Raw Materials
- → 2005 MergeGlobal Statistics
 - North America Asia 10.2 Million kilos
 - Asia North America 39.3 Million kilos
- → China's air freight imbalance is extreme at 8:1





USA-Asia vs. Asia-USA

- Trade imbalance = revenue imbalance for airlines
- → 1/4 of the amount of cargo to Asia vs. from Asia
 - Imbalance of load exacerbates directional imbalance of revenue
- Flights must operate and make economic sense on a round-trip basis







- → Early week to later week
- → Early month to later month
- → Early quarter to late quarter
- Peak season prior to Lunar New Year holiday, quarter-end March, June, Sept, Dec, and the back-to-school/holiday season rush Sep – Dec







- → Fuel continues to be a challenge in the air cargo market
- → This is a significant component of an airline's variable cost, particularly in the long haul Trans-Pacific Markets
- → Despite slight periods of relief, fuel cost continues to rise
- → There are fuel surcharges in place to offset some of this cost, but they are not compensatory
- \rightarrow We cannot count on relief in the near term.





Fuel Cost 2002 vs. 2006

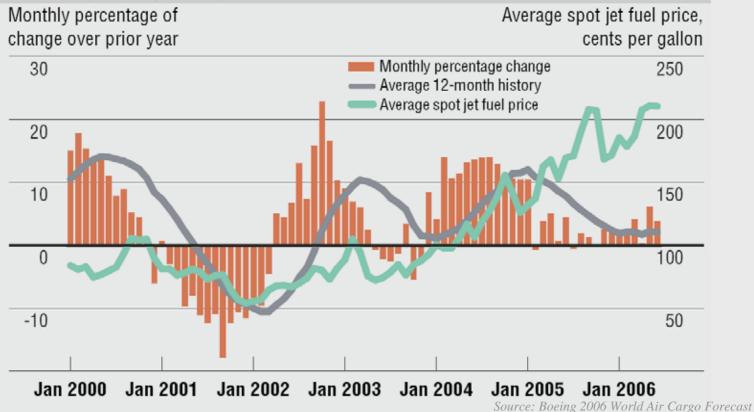
- This example uses the straight line average of five major fuel spot markets: West Coast, Rotterdam, Singapore, Gulf Coast and Mediterranean.
- → Jan 25, 2002 that average was \$0.5335 USD per gallon
- → May 2006 that average was \$2.13 USD per gallon





Fuel Cost

Growth in Major Air Cargo Markets Was Curbed Primarily Owing to High Jet Fuel Prices









- → While there are obstacles, there are also many opportunities
- Polar is pleased to have overcome the first obstacles by being designated for service to China and receiving important frequency awards
- → We are also pleased with the CAAC's focus on providing the infrastructure to accommodate future growth.
- → We believe that Polar has the opportunity to serve and grow with China in the development of the air cargo market
- → We look forward to the future....





Thank You!