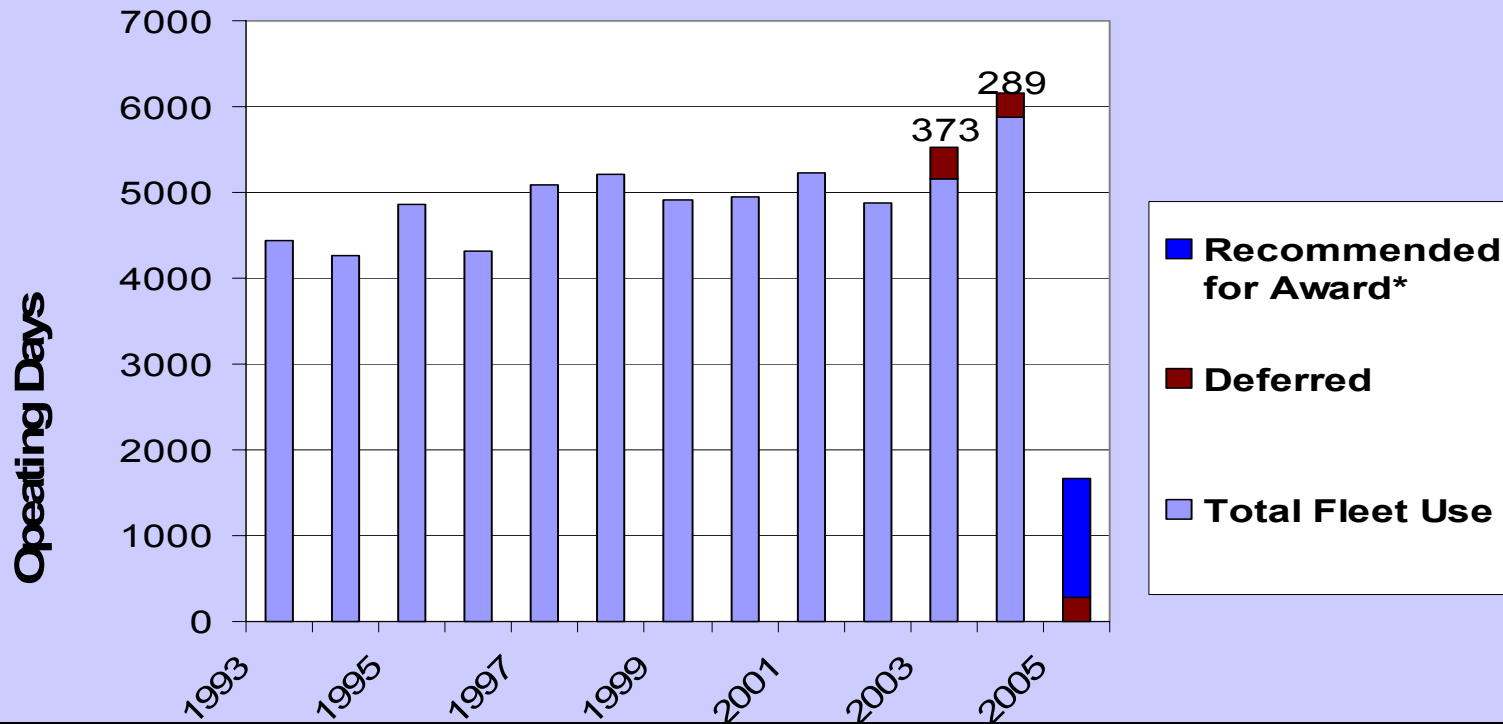


Fleet Use and Projected Use: 1993 - 2005



Total Fleet Use = Fleet use data is from the following sources:

- **1993-2002** - Final ship schedules.
- **2003** - ship schedules as posted on 9/9/03.
- **2004** - Letters of Intent as posted on 9/9/03. Includes some pending programs and funded days that were deferred from 2003.

* **Recommended for Award** = programs that have been recommended for funding, but have not been scheduled. In 2005, the shaded brown bar indicates the days that were deferred from the previous year.

UNOLS Fleet Utilization

Trends and Projections

September 2003

2003 Deferred Programs (373 days)

(Reasons for deferring ship time to 2004)

- **Ship Availability** - Ships were booked for other projects or specific type of ship not close enough to schedule (134 days).
- **External** – Forces outside the control of schedulers or PIs such as Permits, Clearances, Civil Unrest and changes in the availability of funds (180 days).
- **Instrumentation Availability** – Scheduling conflict or unavailability of major instrumentation including ROVs, MCS, OBS, etc. ALVIN is included with ship availability unless ALVIN was out of service while ATLANTIS was available (17 days).
- **Principal Investigator** – Delay or Deferral at request of PI or because PI or their equipment is unavailable for the proposed cruise period (42 days).

2004 Deferred Programs (289 days)

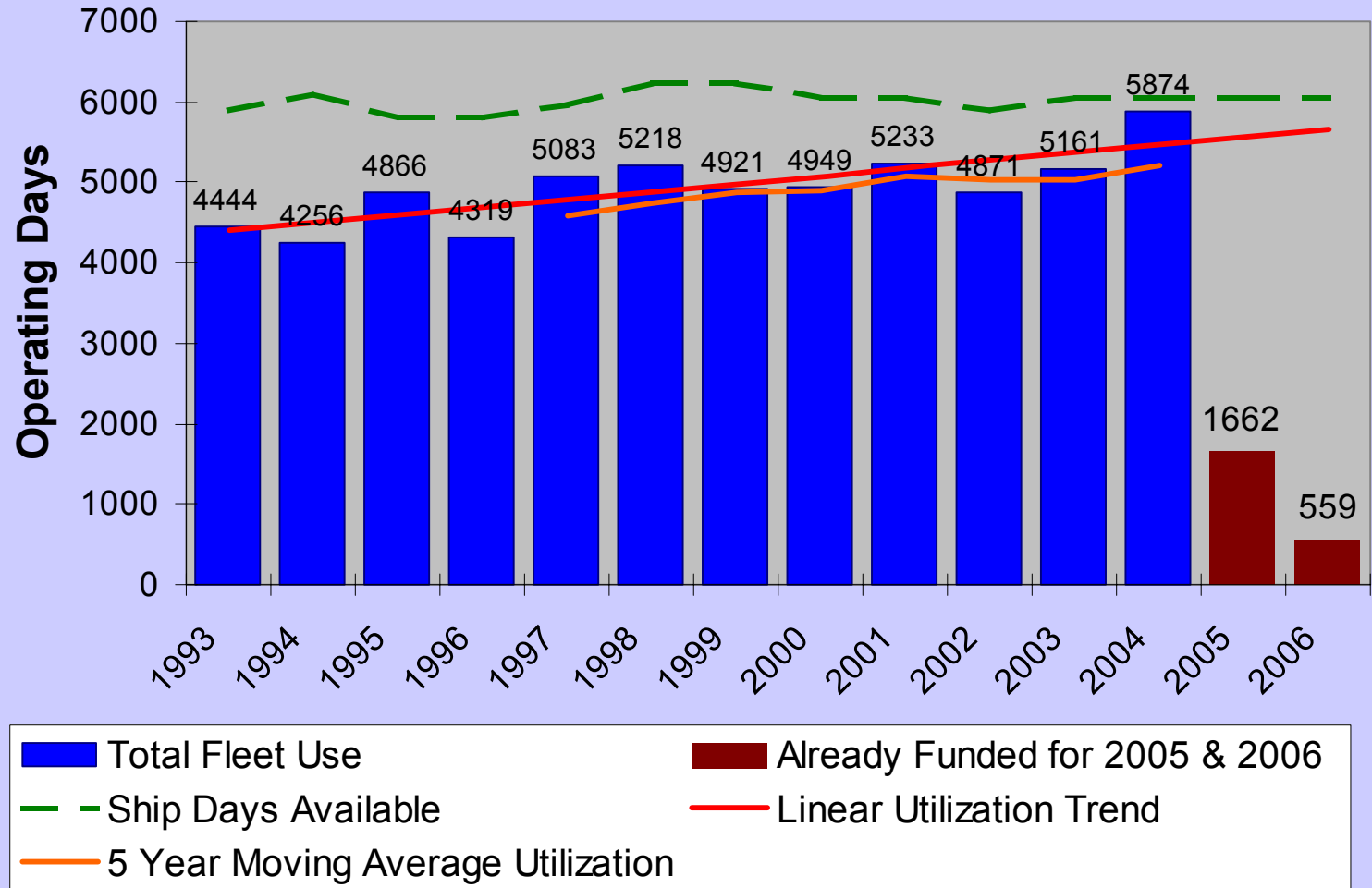
(Reasons for deferring ship time to 2005)

- **Ship Availability** - Ships were booked for other projects or specific type of ship not close enough to schedule (214 days).
- **Instrumentation Availability** – Scheduling conflict or unavailability of major instrumentation including ROVs, MCS, OBS, etc. ALVIN is included with ship availability unless ALVIN was out of service while ATLANTIS was available (40 days).
- **Principal Investigator** – Delay or Deferral at request of PI or because PI or their equipment is unavailable for the proposed cruise period (35 days).

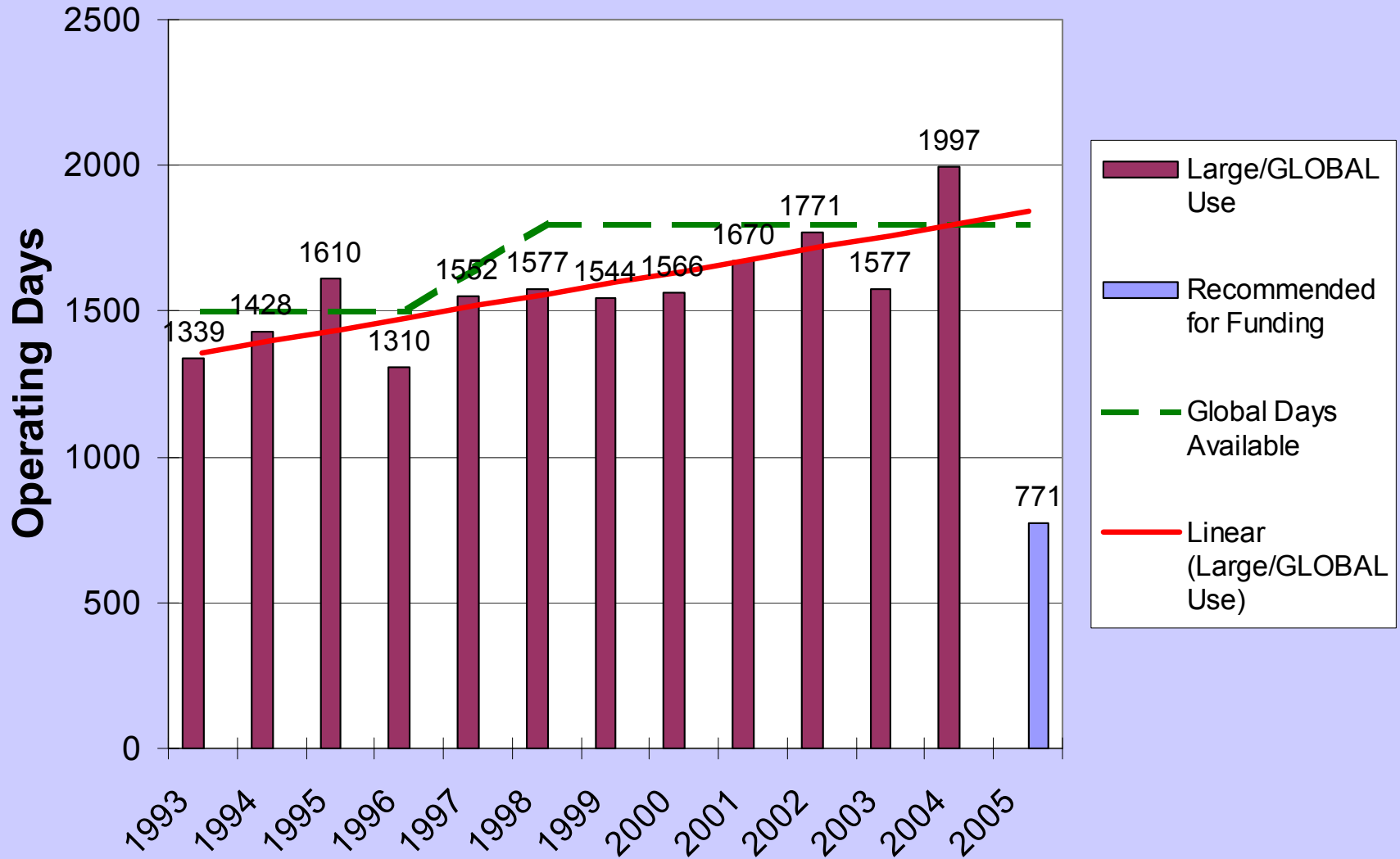
Requests moved to a different Ship Class

- 2004 Ship time requests for large vessels that were scheduled on UNOLS intermediate vessels = 204 days (7 requests)
- 2004 Ship time request for a large vessel that is not yet scheduled on a UNOLS vessel = 78 days (1 request)

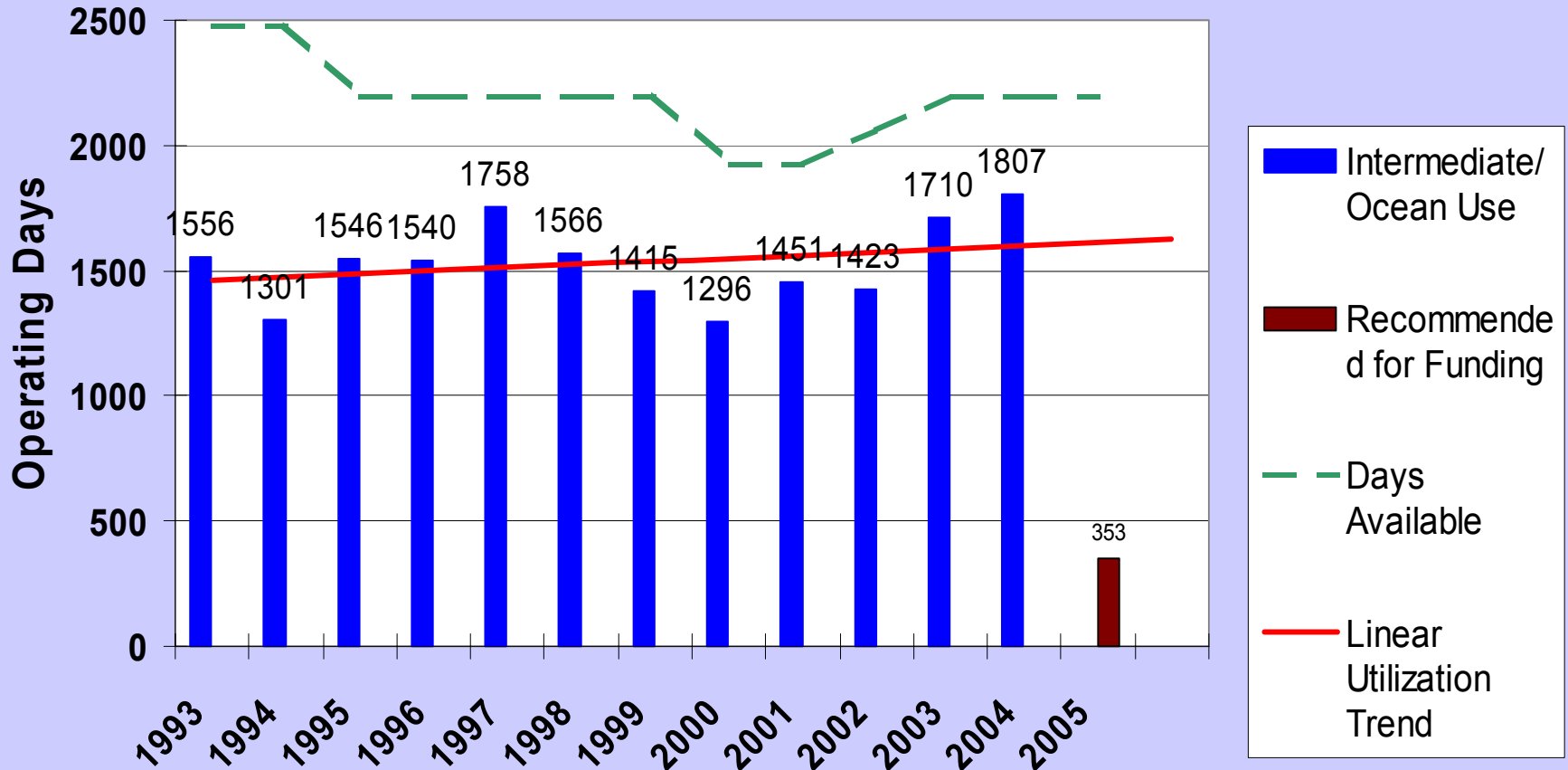
Fleet Utilization Trends



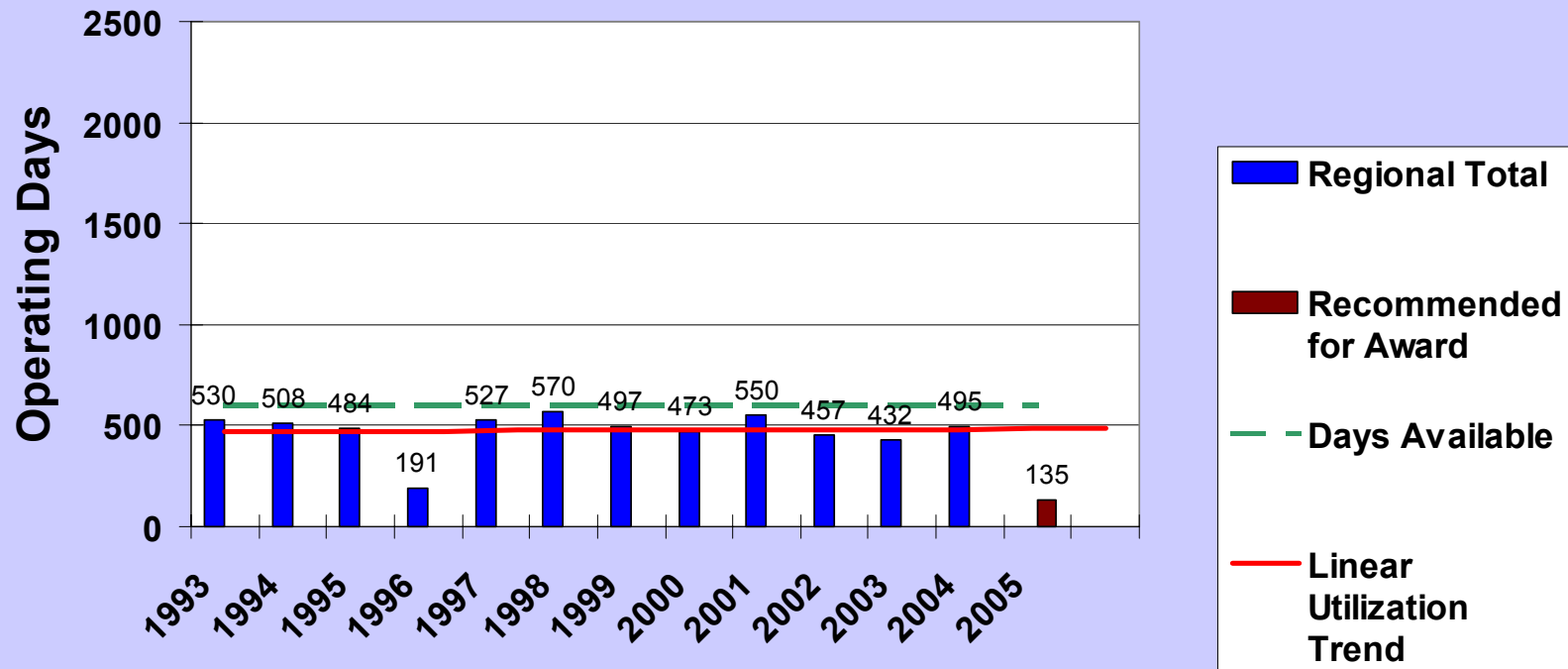
Global Utilization Trends



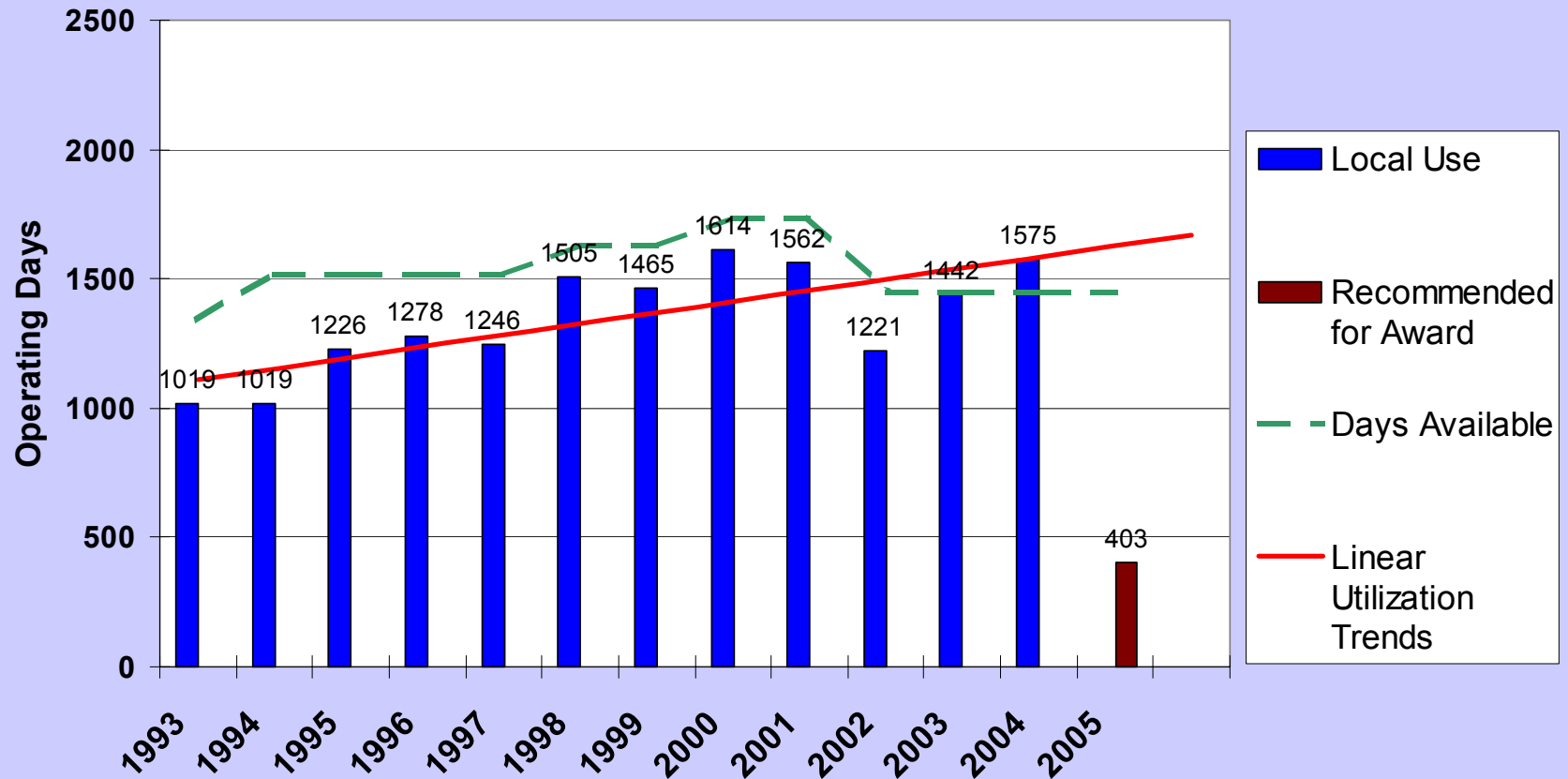
Intermediate/Ocean Class Utilization Trends



Regional Ship Utilization Trend



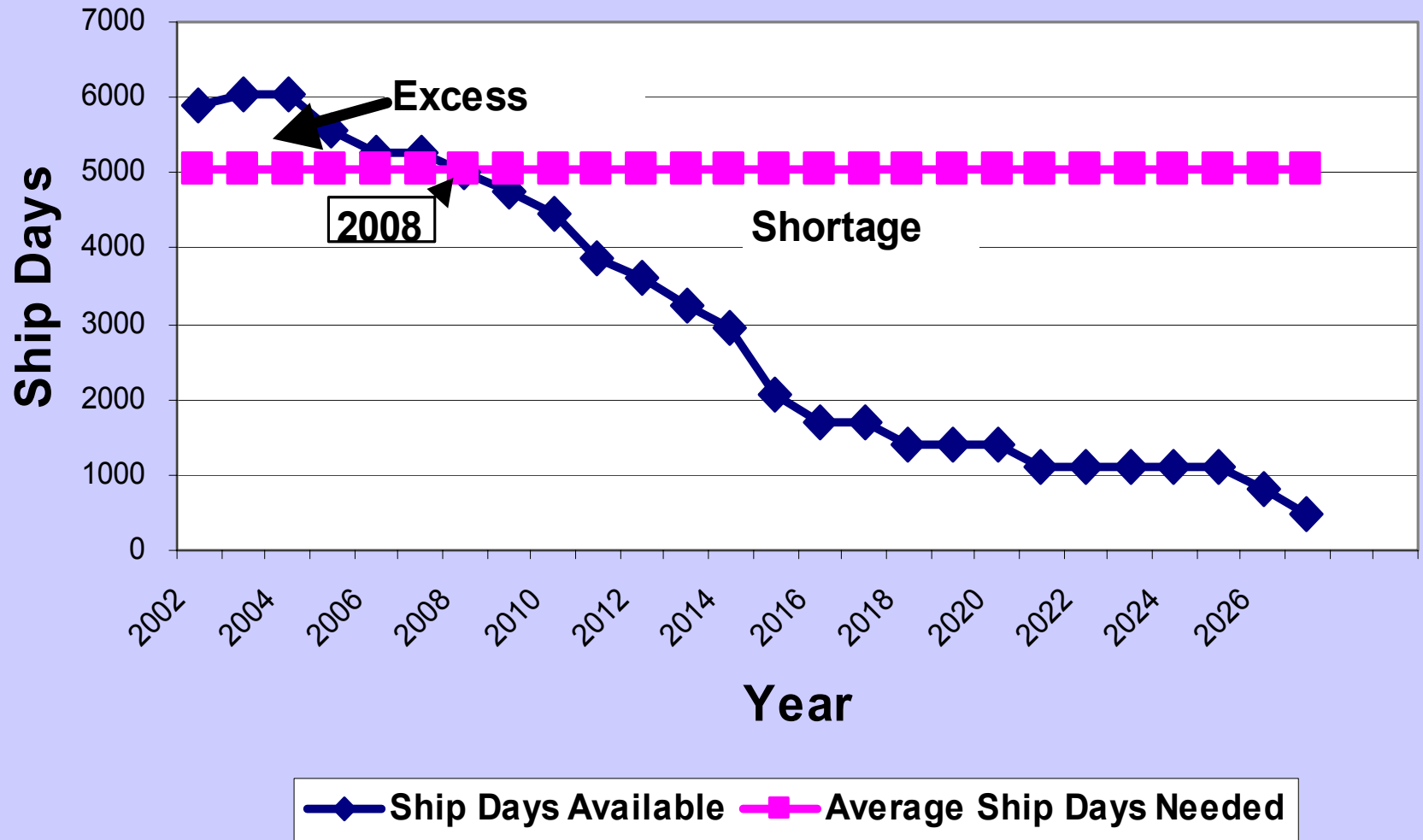
Local Ship Utilization Trend



FOY Definition, etc.

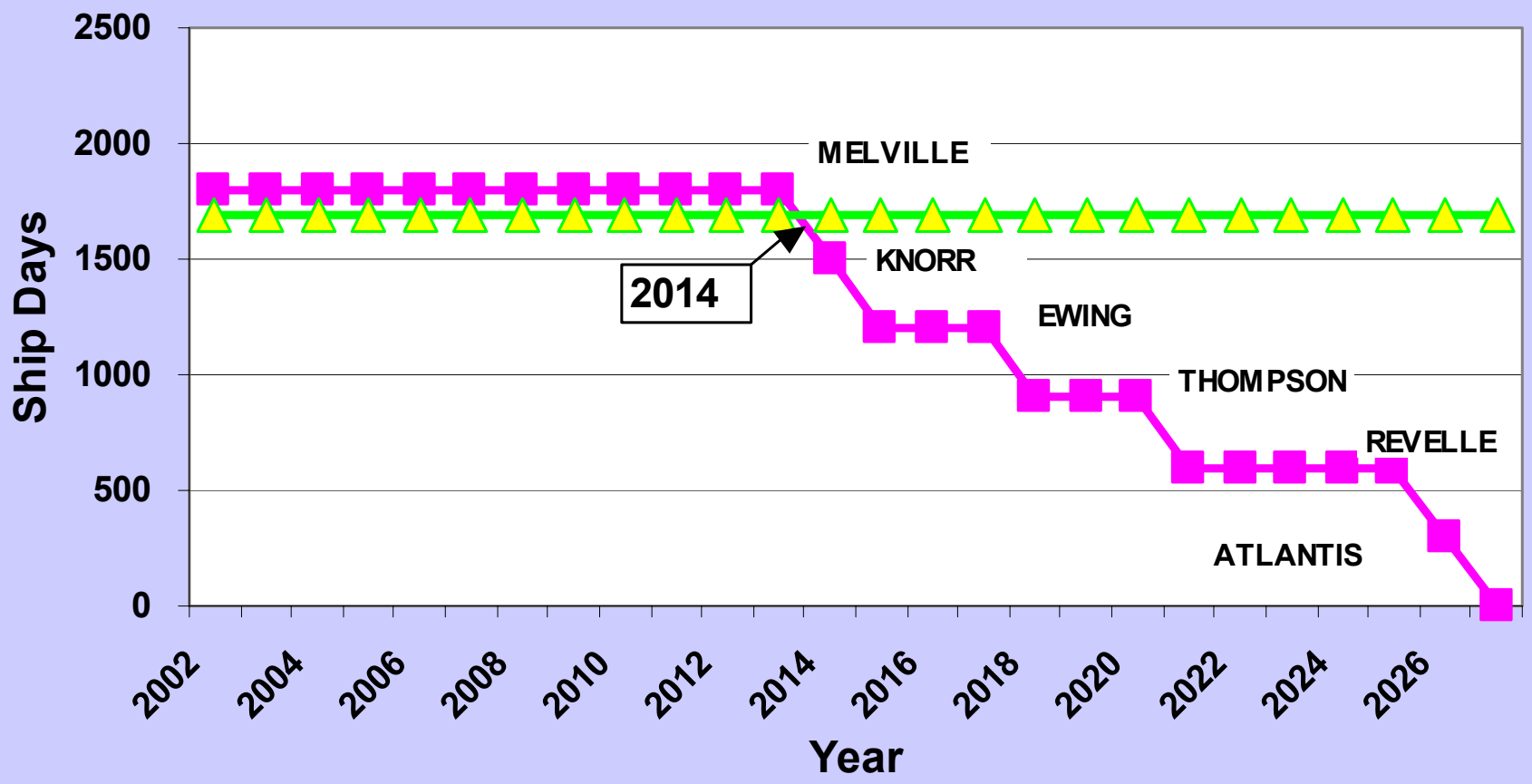
Ship Use 5-Year Average (days): 1999 - 2003						
	1999	2000	2001	2002	2003*	Average
Global/Large	1544	1566	1670	1771	1890	1688
Ocean/Intermediate	1415	1296	1451	1423	1733	1464
Regional	497	473	550	457	432	482
Local	1465	1614	1562	1221	1442	1461
	4921	4949	5233	4872	5497	5094
*2003 includes ship days that were deferred to 2004						
FOFC Definition of Full Operating Year (FOY) - FOFC Report, page 8						
	days					
Large	300					
Intermediate	275					
Regional	200					
Local**	180/110	(Local ship <100 ft = 110 FOY)				
** Local FOY definition is from the 1995 Fleet Improvement Plan.						

Total Ship Days Available vs Average Ship Days Needed

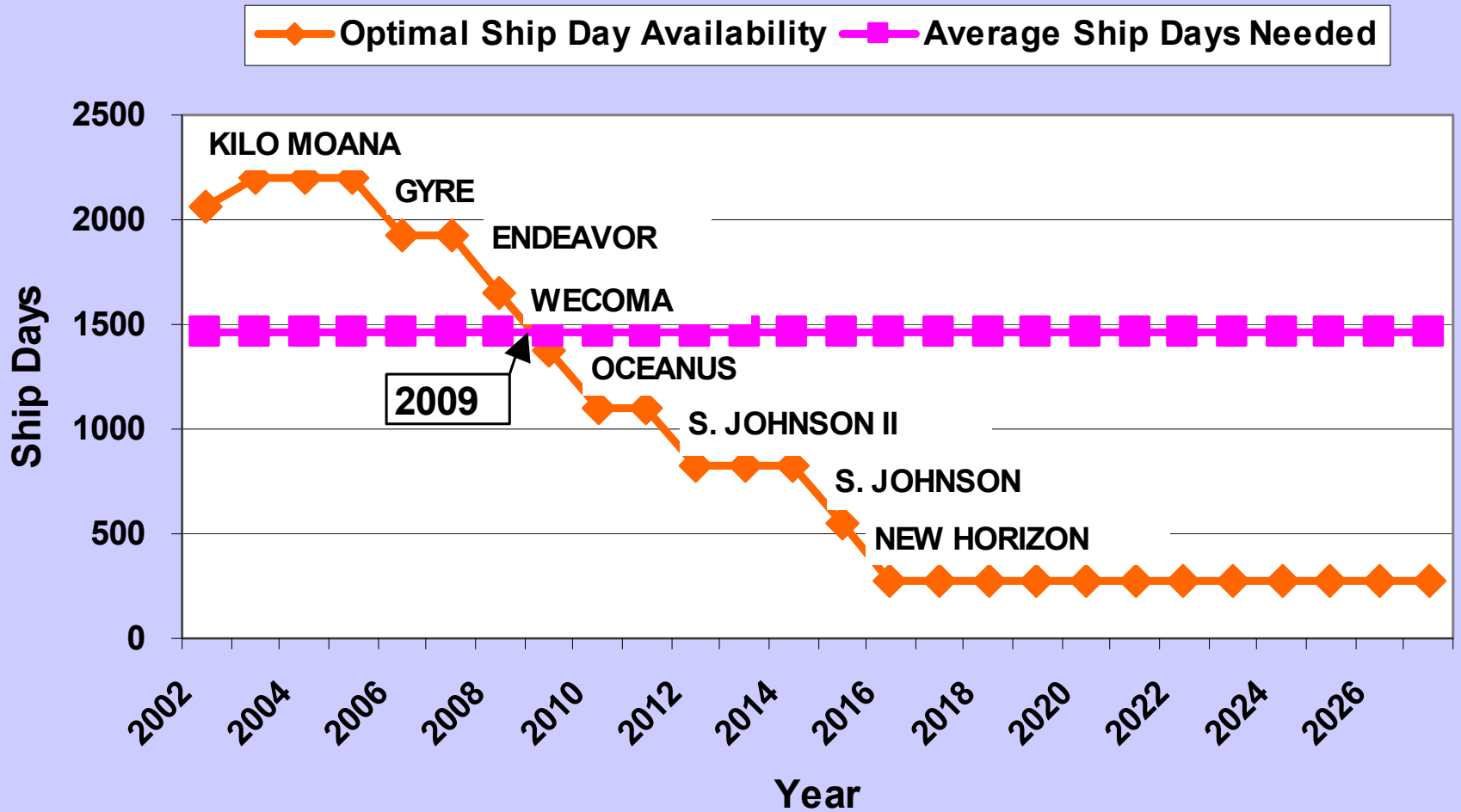


Global - Optimal Ship Days vs Average Days Needed

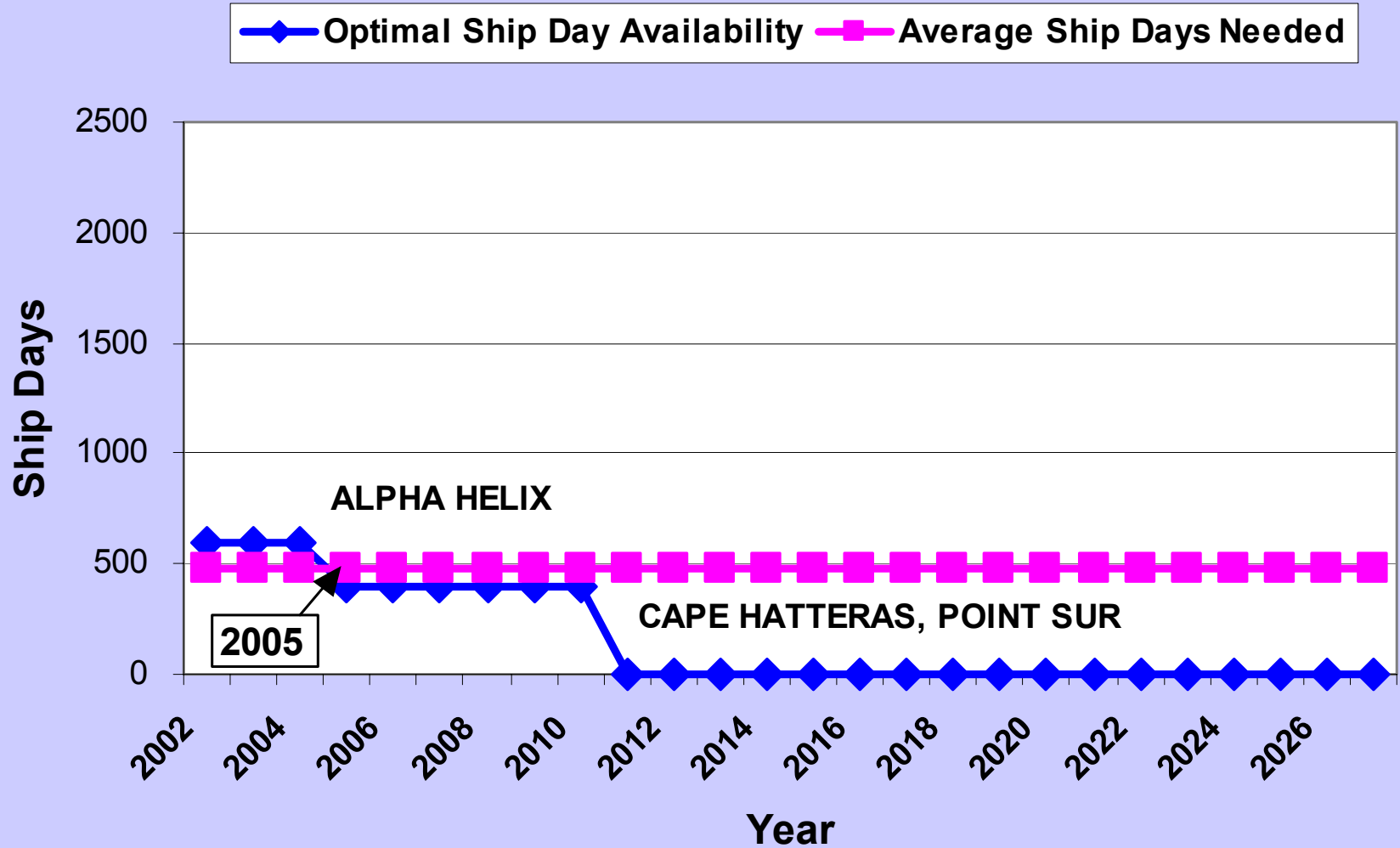
Optimal Ship Day Availability Average Ship Days Needed



Ocean Class - Optimal Ship Days vs Average Days Needed



Regional Class - Optimal Ship Days vs Average Days Needed



Local Class - Optimal Ship Days vs Average Days Needed

