

Figure 1. Photo of the evaluated boats while tied together (Boats 20, 200 and 173).

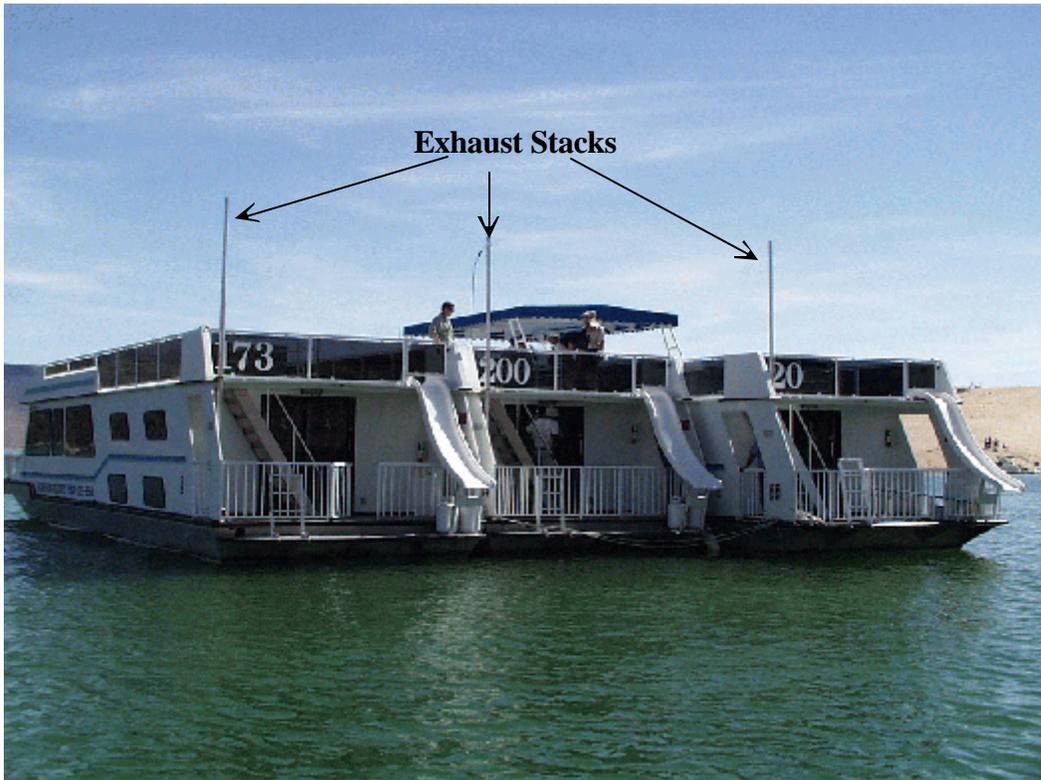


Figure 2. slip-fit allows extension of upper pipe beyond



Dry stack with coupling which removal/installation pipe extending upper deck .

Figure 3. Photo of evaluated boat while underway on Lake Mead.



Figure 4. Sampling locations on the lower deck of each houseboat (in single boat configuration). Note: Sample locations designated with hexagons.

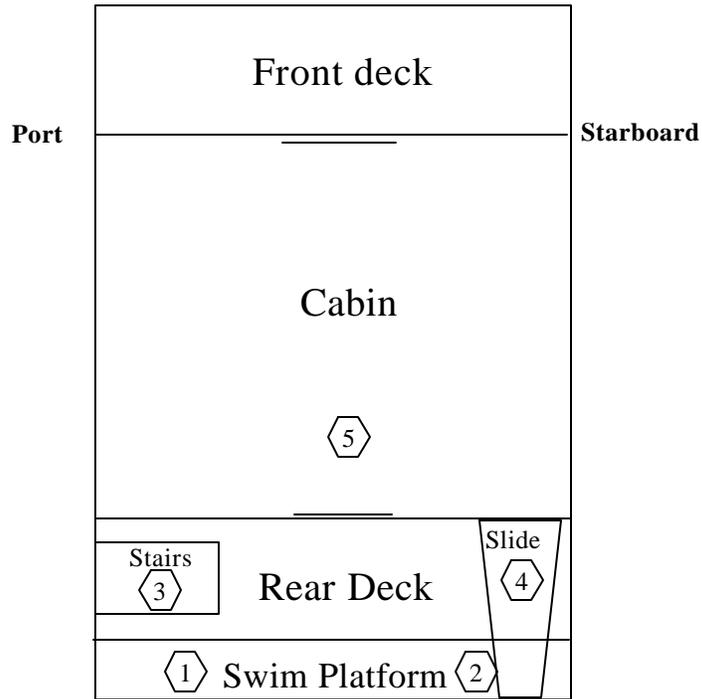
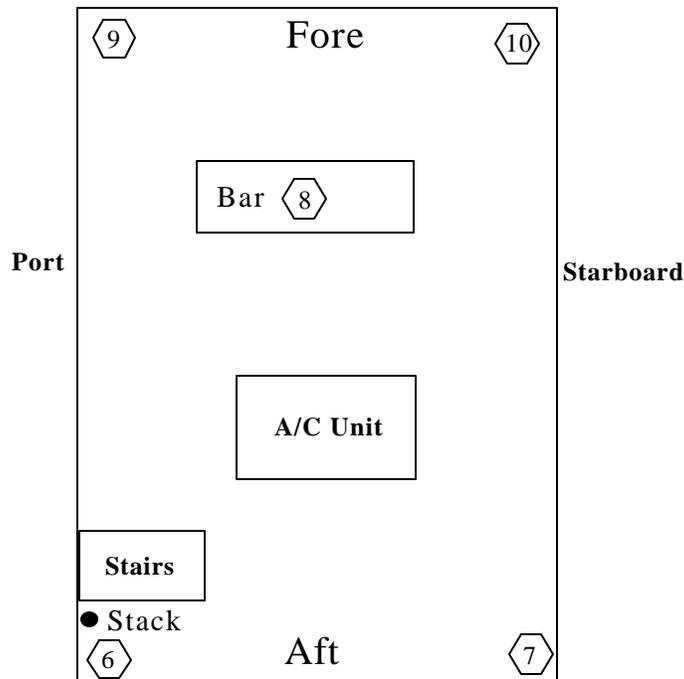


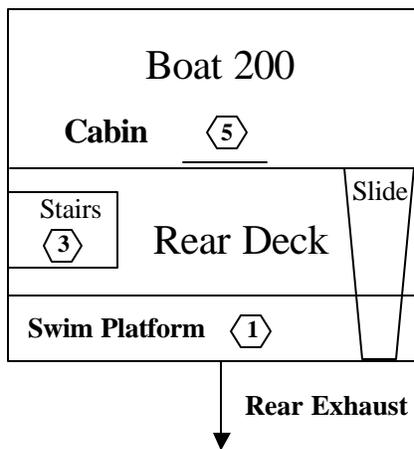
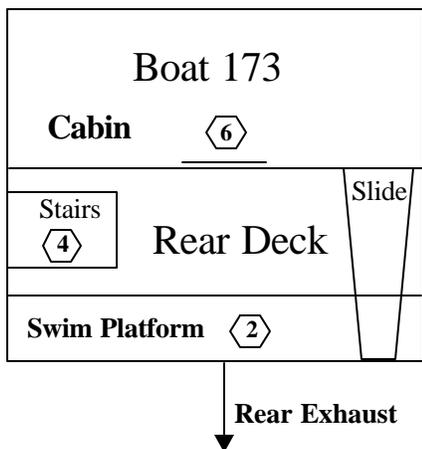
Figure 5. Sampling upper deck of each boat configuration).



locations on the houseboat (in single

Note:  
locations  
with

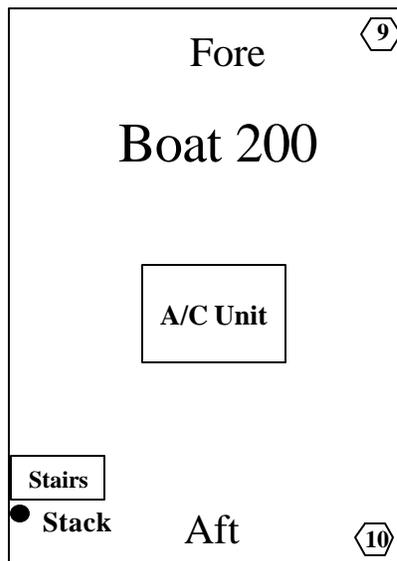
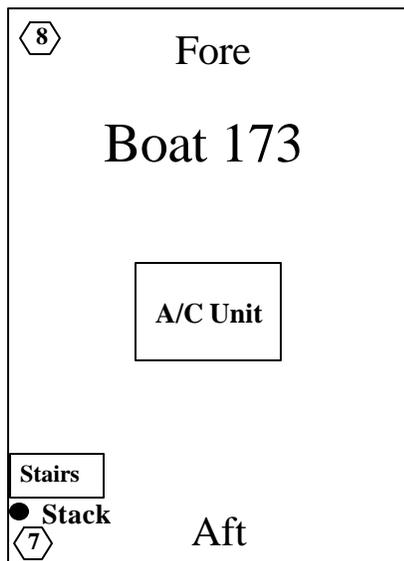
Figure 6.  
locations on  
deck of  
(for two  
together



Sample  
designated  
hexagons.

Sampling  
the rear, lower  
houseboats  
boats tied  
configuration).

Figure 7.  
locations on  
deck of  
(for two  
together



Sampling  
the upper  
houseboats  
boats tied  
configuration).

Note: Sample locations designated with hexagons.

Figure 8. Sampling locations on the rear, lower deck of houseboats (for three boats tied together configuration).

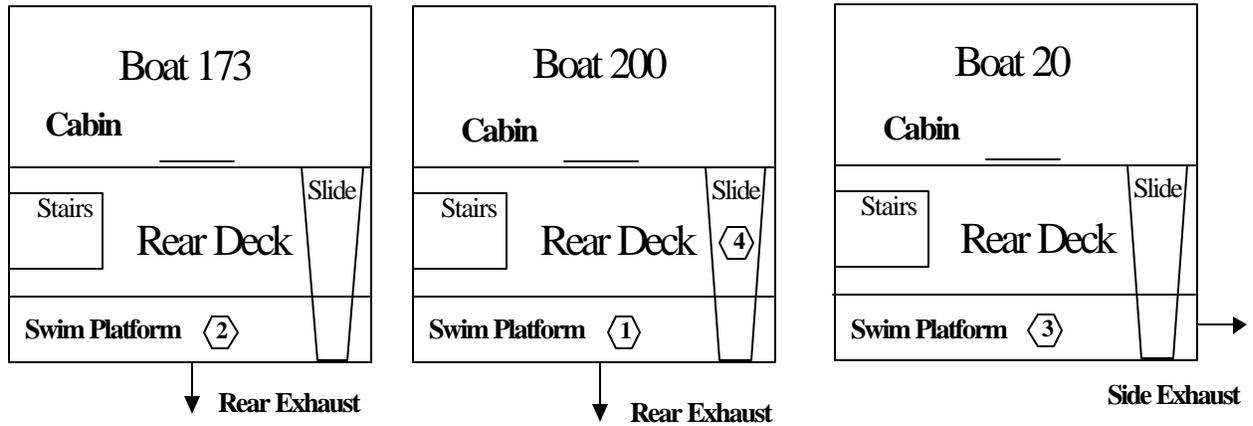
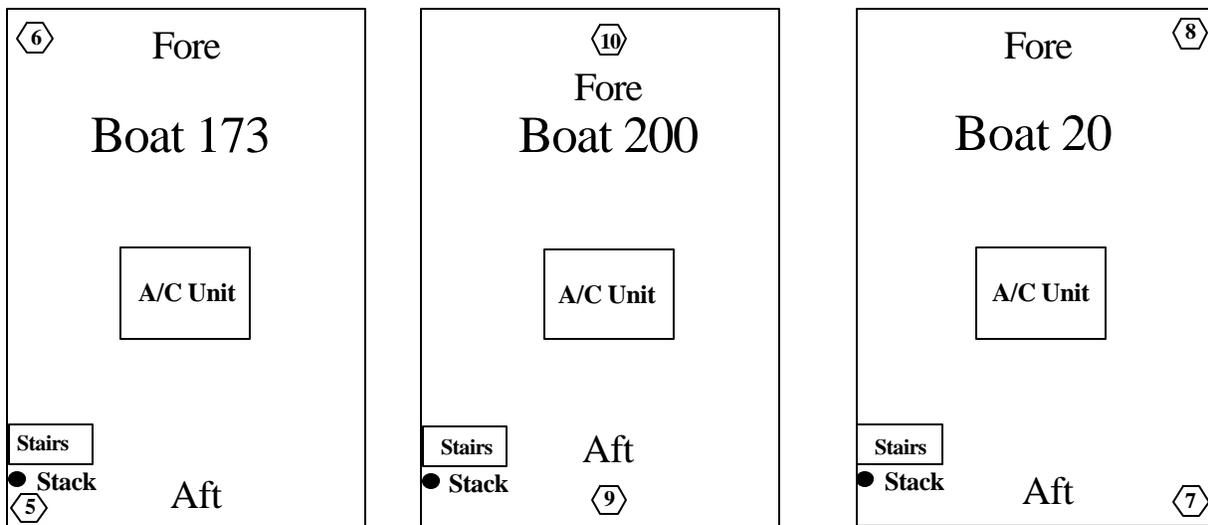


Figure 9. Sampling locations on the upper deck of houseboats (for three boats tied together configuration).



configuration).

Note: Sample locations designated with hexagons.

## Boat Stationary Generator Operating Alone Stack, Side and Rear Generator Exhaust Configuration

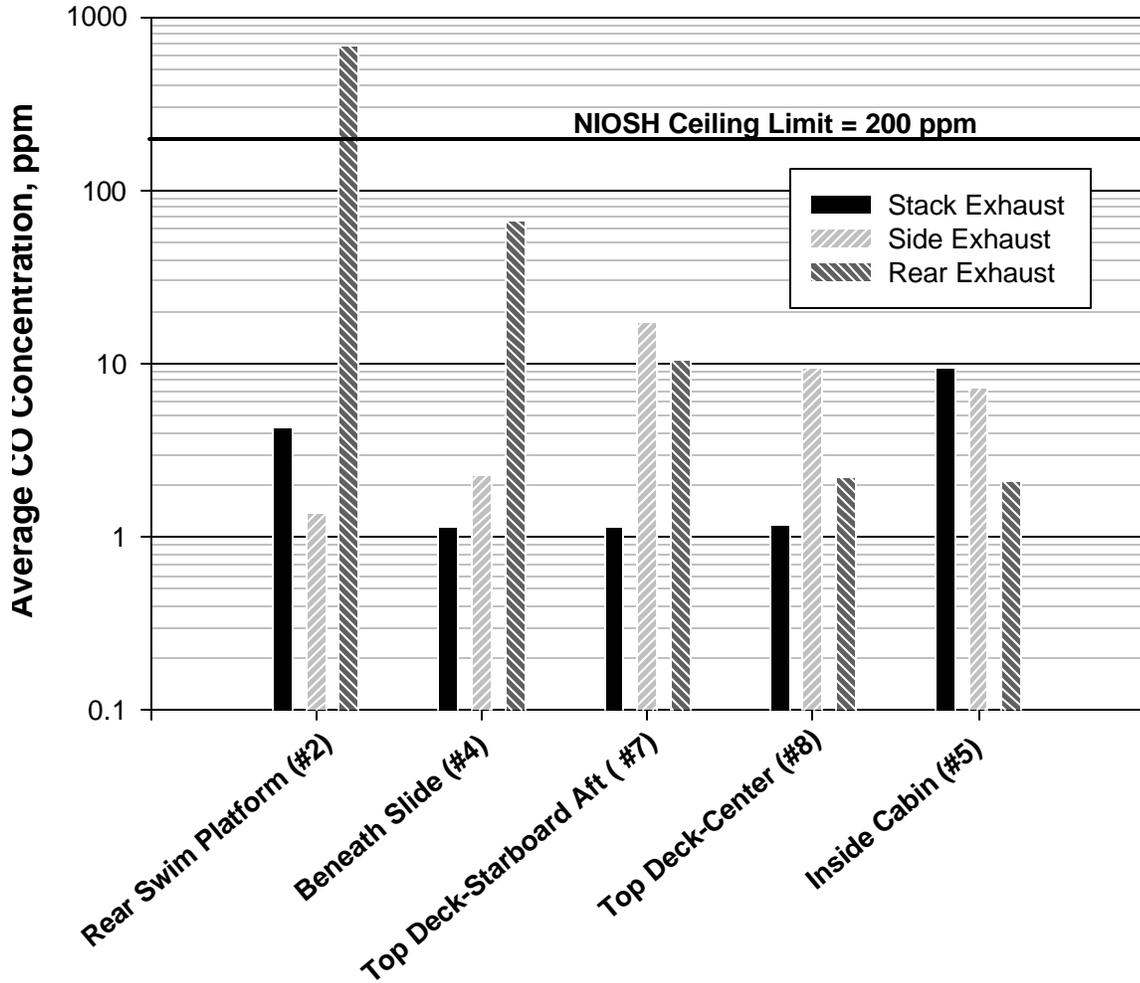


Figure 10. Comparison of average CO concentrations at various sampling locations for a single stationary boat with stack, side, or rear generator exhaust configuration. Sample location numbers are in parentheses.

Note: Average CO concentrations are plotted on a common log scale due to the wide range of values.

## Boat Underway Generator and Propulsion Engines Operating Stack versus Side Generator Exhaust Configuration

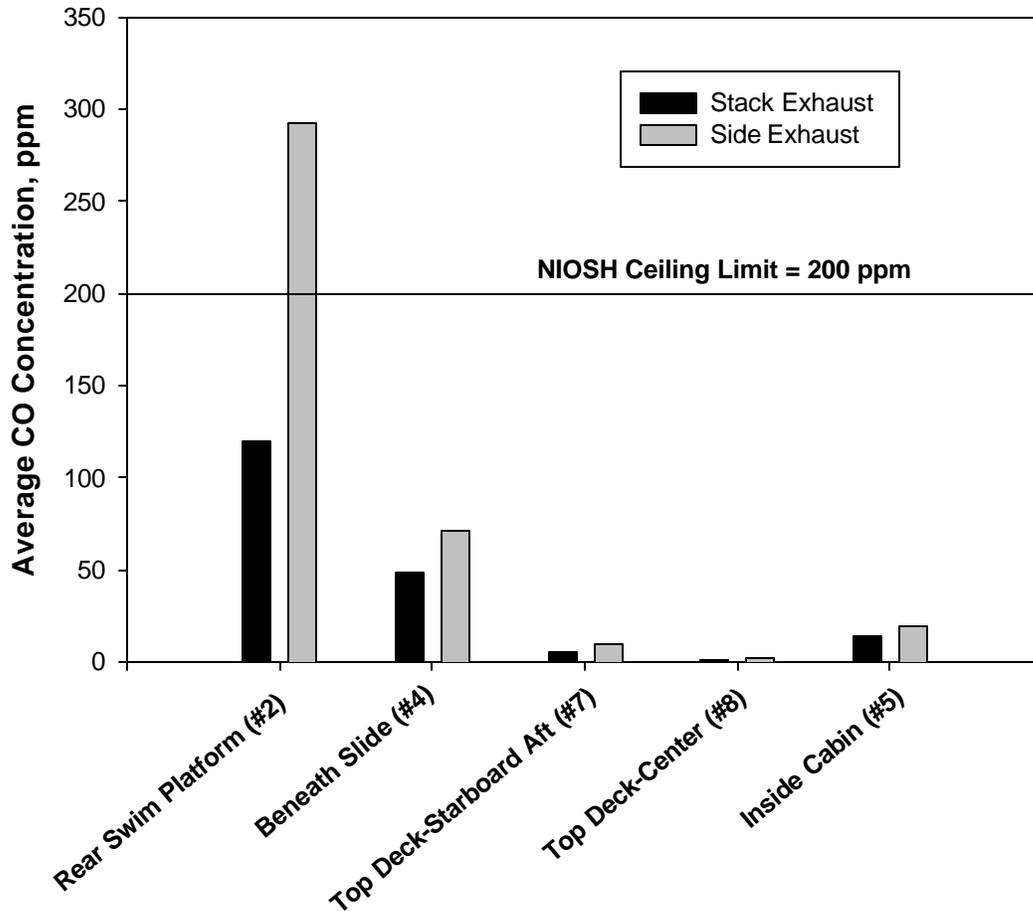


Figure 11. Comparison of average CO concentrations at various sampling locations for a single boat underway with stack or side generator exhaust configuration. Sample location numbers are in parentheses.

## Boat Underway Generator and Propulsion Engines Operating Stack versus Rear Generator Exhaust Configuration

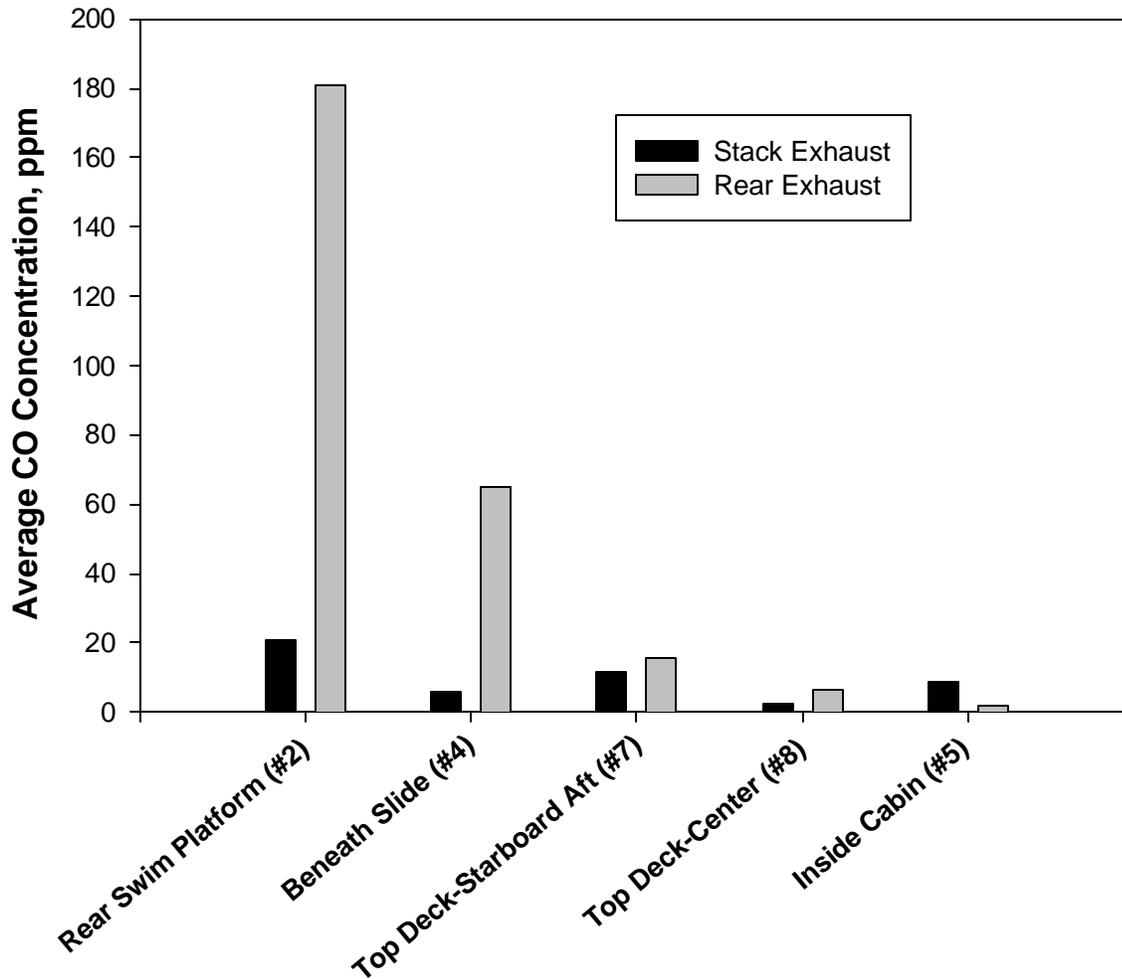


Figure 12. Comparison of average CO concentrations at various sampling locations for a single boat underway with stack or rear generator exhaust configuration. Sample location numbers are in parentheses.

## Two Boats Tied Together Generator Operating Alone Stack versus Rear Exhaust Configuration

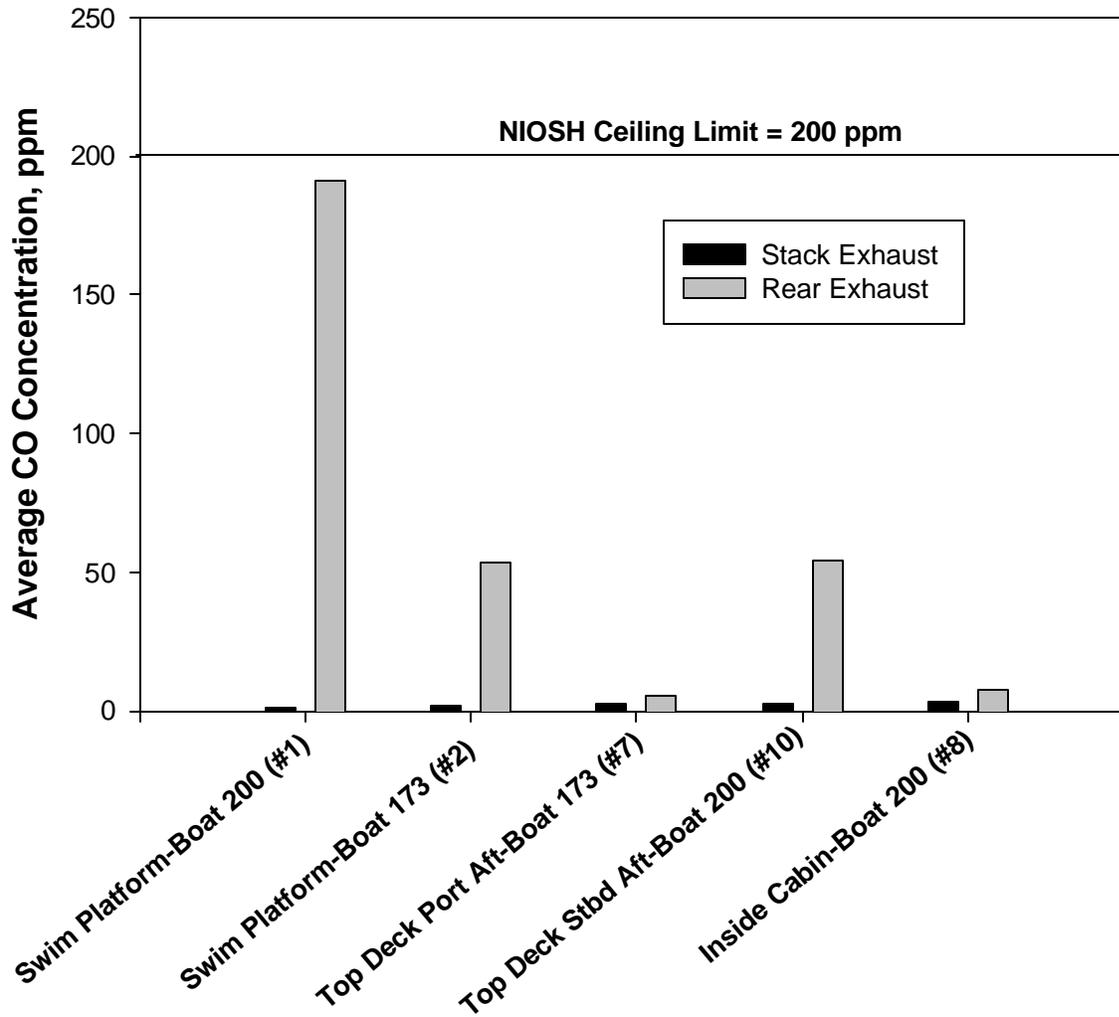


Figure 13. Comparison of average CO concentrations at various sampling locations for a 2 boats tied together with stack or rear generator exhaust configuration. Sample location numbers are in parentheses.

## Three Boats Tied Together Generator Operating Alone Stack and Side/Rear Combo Exhaust Configuration

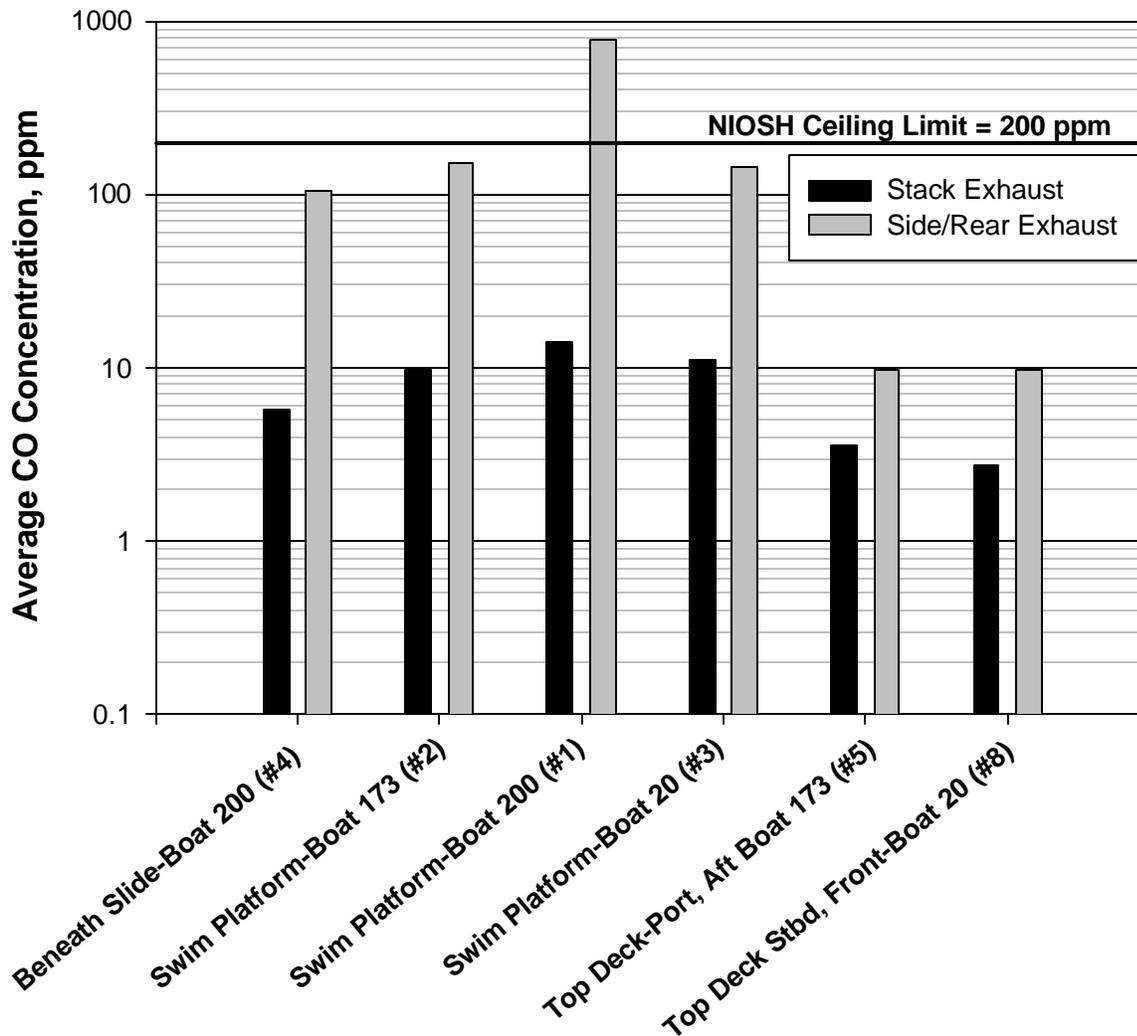


Figure 14. Comparison of average CO concentrations at various sampling locations for 3 boats tied together with stack or side/rear combination generator exhaust configuration. Sample location numbers are in parentheses.

Note: Average CO concentrations are plotted on a common log scale due to the wide range of values.

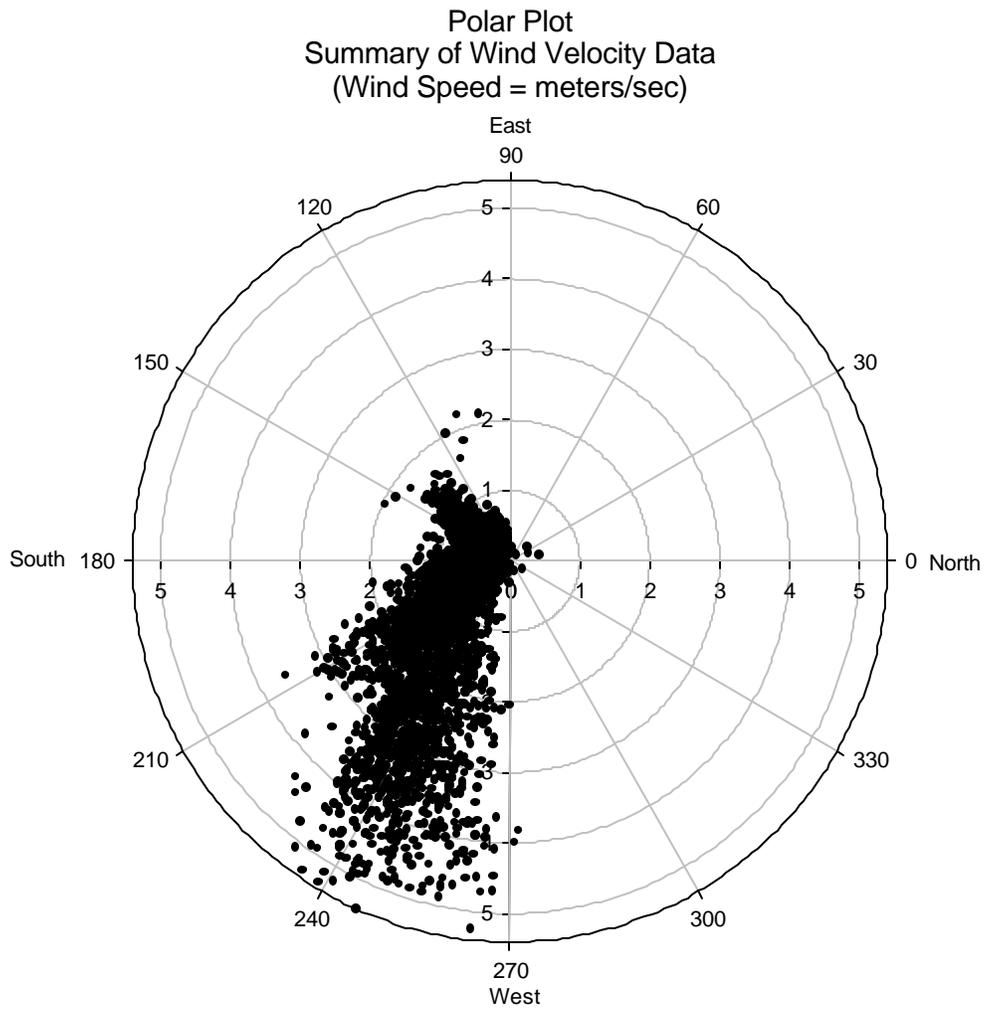


Figure 15. Wind velocity data gathered on the morning of June 19, 2001 (mean wind speed 1.7 m/s, direction 206°).

### CO Concentrations on Swim Platform Boat in Motion Stack and Side Generator Exhaust Configuration

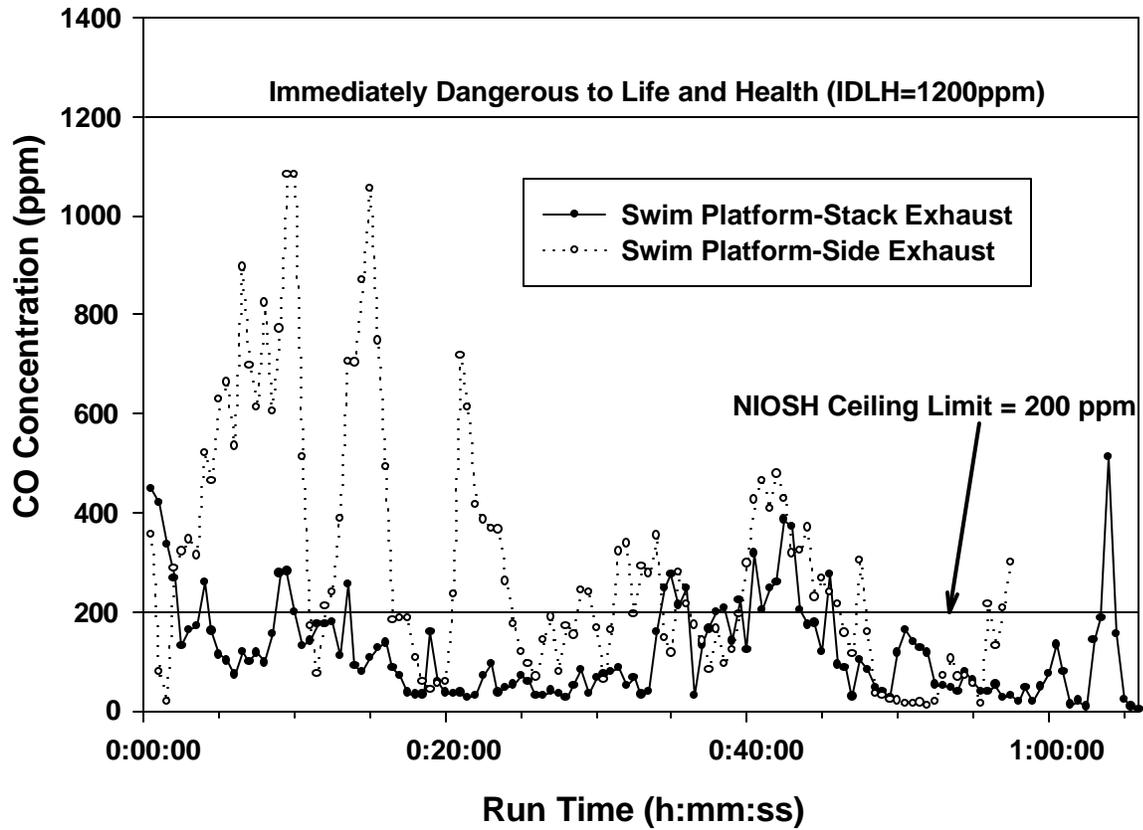


Figure 16. Comparison of stack and side exhaust configuration CO concentrations on the swim platform while the boat is in motion.