SIO Gravity Tie Report – R/V _	Sally Ride
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Date of Tie (yyyymmdd):							
20180716							
Base Station Code, Port & Cruise Name leg (e.g., DoD 2080-2, San Diego, RR1234):							
DoD 0373-2 IGB 15744, Newport, SR1811							
Gravity Base Station Location	n (describe as precisely	as possible):					
Hatfield Marine Science Center Absolute Gravity Station							
,							
Ship Location (port, pier, etc.; describe as precisely as possible):							
Newport OSU Pier (44.37542 N, 124.02687 W)							
(44.625661 N , -124.044870 W)							
Land Meter ID (enter serial n	umber of Lacoste & Ro	omberg portab	le meter, or 'b	p' if ship is do	ocked at base station):		
G-611							
Location	Time (UTC)	Reading – Take 3 per location Reading from the portable gravity meter (e.g., 2345.67)		Height (Inches)			
	Add 24 hours if readings cross GMT midnight			Height of portable meter above sea level			
First Pier measurement	mGal and free air calc: (4184.28+				Lan. 155 above water		
Base Station measurement	1424 mGal calc: (4184.28+(1.02201*4 ⁻	4141.679 1.836))= 4227.037 mG	4141.679	4141.679	BGM-3 24" below water line Pier height above sea level if 'bp' tie:		
	1454 mGal and free air calc: (4184.28-	4141.836	4141.836	4141.836	-		
Second Pier measurement	1509	4141.623	4141.623		L&R: 155" above water BGM-3 19.5" below water line		
Base Station Position: LAT	T: 44.622252		_ LON:	-124.04	5651		
			2.000				
Ship Gravimeter Still Reading from logged data (bias mGal = \sim 123,000):							
980599.89579 = ([scale factor – see BGM-3] x [avg BGM-3 raw counts for tie period]) + [bias – see BGM-3]							
	(4.98247686	XZ	25141.1) + <u>85</u>	55335.030		
Comments:							
No rain and minimal wind	. Pier measurements	were taken	adjacent to Bo	GM3 marking	g on ship. Absolute base station		
grav value of 980,585.99 mgals at Marine Hatfield Science Center. ABS G station ~ 1700' away.							
Person(s) making tie:							
Mary Huey, Annie Rosen							