Student Name:		Class:		Grade:	
		WORKSHEET - alyses of Coast	_		
Observations of	the Weather Co	onditions:			
1) Observe and R	ecord the Coastal	Weather Condition	s for Today		
<u>Time</u> <u>Air ter</u>	np Wind (speed	l & direction) Hui	midity Clouds	Sea temp	
Observations of	the Offshore Sv	well:			
2) Observe and R Swell #1:	Record the Local So Swell height	well Conditions for Swell direction		<u>eriod</u>	
Swell #2:	Swell height	Swell direction	Swell p	<u>eriod</u>	
3) If there are two	or more swell runni	ng, how can you tell	by the wave patterr	ns?	
4) Does the CDIP	Wave Model appea	r to match the locally	observed swell co	nditions?	
Observations of		right (offshore) to the	surf height (when )	wave starts to break)	
o) compare the di			odir riolgile (whom t	wave starte to broak)	
6) Why is the surf	height roughly twice	e as much as the sw	ell height?		
7) Describe the sh	nape and form of the	e surf today. Plungin	g or spilling? Clear	n, "OK" or sloppy?	
Nature and Obse	ervations of the	Tides:			
8) Observe and F	Record the Tide Co	onditions for Today:		4	
Firet H	ligh Tide:	<u>Time</u>	<u>Tidal heigh</u>	<u>ı</u> feet	
	.ow Tide:	<del> </del>		feet	
	d High Tide:			feet	
	d Low Tide:			feet	
9) Which type of	tide do we have in S	San Diego? Diurnal,	, Semidiurnal, or Mi	xed?	
10) Is the present	tide conditions an e	bb, flood, or slack tid	e?		
11) What part of th	e lunar cycle is occ	urring now?			
12) Are we in a ne	ap tide or spring tide	e part of monthly tida	al cycle?		

## **Nature and Observations of the Surf Zone Currents:**

## **Observe and Record the Longshore Current Conditions for Today: 13)** Do you observe a longshore current? \_\_\_\_\_ If yes then record the direction and speed: Direction: Relative Speed: **14)** What causes a longshore current to develop inside the surf zone? 15) What is the prominent direction of the longshore current in Southern California? Why? **16)** What is the longshore *drift*? What causes it? Where does it ultimately end up? 6. Observe and Record the Rip Current Conditions for Today: 17) Do you observe a rip current? If yes, then record the number, spacing and intensity: Number: Spacing: meters apart Intensity: Strong/Moderate/Weak **18)** Which direction does the rip current(s) move through the surf zone? **19)** What causes a rip current to develop in the surf zone? 20) What are the tell-tale signs for spotting a rip current? 21) What do you do if you are caught in a rip current and need to escape it? POST TRIP REFLECTION: 22) What did you learn on this trip? 23) What did you find most interesting, enjoyable and/or important? 24) What did you find most difficult or challenging?