

Site:

Start Date:

End Date:

Team Member	Certifications	Cores						Fish Only Transects												
		Fish 7						Fish 8				Fish 9								
		Core 1						Core 2				Core 3								
		Fish 10						Fish 11				Fish 12								
		Fish 13						Fish 14				Fish 15								
		Core 4						Core 5				Core 6								
		Fish 16						Fish 17				Fish 18								
		SHORE																		
		Fish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		Invert	1	2	3	4	5	6	Urchin Sizing: yes / no						Temperature					
									Recent Storms: yes / no						Air: °C / °F					
									<u>Bull kelp (circle all present)</u>						Surface: °C / °F					
		Kelp	1	2	3	4	5	6	Young Adult Reproductive N/A						5m: °C / °F					
									<u>Circle % of urchins diseased</u>						10m: °C / °F					
									Purple: 0% <5% 6-50% >50% N/A						Weather:					
									Red: 0% <5% 6-50% >50% N/A											
		UPC	1	2	3	4	5	6	Notes:											

Site:

Start Date:

End Date:

Team Member	Certifications	SHORE																		
		----- Fish 18 -----						----- Fish 17 -----						----- Fish 16 -----						
		----- Core 6 -----						----- Core 5 -----						----- Core 4 -----						
		----- Fish 15 -----						----- Fish 14 -----						----- Fish 13 -----						
		----- Fish 7 -----						----- Fish 11 -----						----- Fish 10 -----						
		----- Core 3 -----						----- Core 2 -----						----- Core 1 -----						
		----- Fish 9 -----						----- Fish 8 -----						----- Fish 7 -----						
			Cores						Fish Only Transects											
		Fish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		Invert	1	2	3	4	5	6	Urchin Sizing: yes / no						Temperature					
									Recent Storms: yes / no						Air: °C / °F					
									<u>Bull kelp (circle all present)</u>						Surface: °C / °F					
		Kelp	1	2	3	4	5	6	Young Adult Reproductive N/A						5m: °C / °F					
									<u>Circle % of urchins diseased</u>						10m: °C / °F					
									Purple: 0% <5% 6-50% >50% N/A						Weather:					
									Red: 0% <5% 6-50% >50% N/A											
		UPC	1	2	3	4	5	6	Notes:											

Fish Data Sheet - Southern California

Date: _____ Diver: _____ Field QA: _____

SITE: _____ Visibility (m): _____ Buddy: _____

						Species Code	T#	T#		
5 - 10 min goal Size in cm (cm)#	Transect #:		Start Depth:		End Depth:		kelp bass	KB		
	Heading:		Start Time:		End Time:		barred sand bass	BSB		
Code:							garibaldi	GARA		
								GARJ		
							blacksmith	BS		
							opaleye	OPE		
							sargo	SAR		
							halfmoon	HFM		
							largemouth blenny	LMB		
							moray eel	MRE		
							triggerfish	TGF*		
							striped perch	STP		
							black perch	BLP		
							rainbow perch	RAP		
							pile perch	PIP		
							rubberlip perch	RUB		
							sheephead	SHM		
								SHF		
								SHJ		
							senorita	SEN		
							rock wrasse	RWM		
								RWF		
								RWJ		
Gear/Trash	Hook/Line:	Traps: (Active/Lost)	Nets:	Trash:						
<u>Comments:</u>										
5 - 10 min goal Size in cm (cm)#	Transect #:		Start Depth:		End Depth:		blue rockfish	BLU		
	Heading:		Start Time:		End Time:		kelp rockfish	KR		
Code:							black rockfish	BLK		
							gopher rockfish	GOR		
							black and yellow	BYR		
							olive/yellowtail	OYR		
							copper rockfish	COR		
							vermillion rockfish	VRR		
							grass rockfish	GRR		
							treefish	TREA		
								TREJ		
							brown rockfish	BRR		
							China rockfish	CHR		
							juvenile rockfish	YOY		
							kelp greenling	KGM		
								KGF		
								KGJ		
							lingcod	LIN		
							cabezon	CAB		
							horn shark	HS		
							giant sea bass	GSB*		
Gear/Trash	Hook/Line:	Traps: (Active/Lost)	Nets:	Trash:						
<u>Comments:</u>										

*note if seen on or off transect
Don't size YOYs, moray eels

Avrey's Fish Data Sheet

Site: _____ Date: _____

Diver: _____

Field QA:

5 - 10 minute target time - size in cm Visibility (m): _____

Buddy: _____

							SPECIES CODE	T#	T#	
Transect #							kelp bass	KB		
							barred sand bass	BSB		
Heading							garibaldi	GARA		
								GARJ		
Start Depth							blacksmith	BS		
							opaleye	OPE		
End Depth							sargo	SAR		
							halfmoon	HFM		
Start Time							largemouth blenny	LMB		
							moray eel	MRE		
End Time							striped perch	STP		
							black perch	BLP		
Gear/trash	Hook/Line:	Active traps:	Lost traps:	Nets:	Trash:	rainbow perch	RAP			
						pile perch	PIP			
Transect #							rubberlip perch	RUB		
							sheephead	SHM		
Heading								SHF		
								SHJ		
Start time							senorita	SEN		
							rock wrasse	RWM		
Start Depth								RWF		
							blue rockfish	BLU		
End Time							kelp rockfish	KR		
							black rockfish	BLK		
End Depth							gopher rockfish	GOR		
							black and yellow	BYR		
Gear/trash	Hook/Line:	Active traps:	Lost traps:	Nets:	Trash:	olive/yellowtail	OYR			
						copper rockfish	COR			
Comments:							grass rockfish	GRR		
							treefish	TREA		
							TREJ			
						brown rockfish	BRR			
						China rockfish	CHR			
						juvenile rockfish	YOY			
						kelp greenling	KGM			
							KGF			
							KGJ			
						lingcod	LIN			
						Giant Sea Bass GSB :	cabezon	CAB		
						Finescale Triggerfish TGF :	horn shark	HS		

Fish Data Sheet - North/Central

Date: _____ Diver: _____ Field QA: _____

SITE: _____ Visibility (m): _____ Buddy: _____

						Species Code	T#	T#				
5 - 10 min goal Size in cm (cm)#	Transect #:		Start Depth:		End Depth:		blue rockfish	BLU				
	Heading:		Start Time:		End Time:		kelp rockfish	KR				
Code:												
							Rockfish	black rockfish	BLK			
								gopher rockfish	GOR			
								black & yellow	BYR			
								olive/yellowtail	OYR			
								copper rockfish	COR			
								vermilion	VRR			
								grass rockfish	GRR			
								treefish	TREJ			
									TREA			
								brown rockfish	BRR			
								China rockfish	CHR			
								YOY rockfish	YOY			
								Perch	striped perch	STP		
									black perch	BLP		
									rainbow perch	RAP		
pile perch	PIP											
rubberlip perch	RUB											
Greenling	kelp greenling	KGM										
		KGF										
		KGJ										
5 - 10 min goal Size in cm (cm)#	Transect #:		Start Depth:		End Depth:		sheephead	SHM				
	Heading:		Start Time:		End Time:			SHF				
Code:							Wrasse	SHJ				
								senorita	SEN			
								rock wrasse	RWM			
									RWF			
								kelp bass	KB			
							barred sand bass	BSB				
							garibaldi	GARA				
								GARJ				
							blacksmith	BS				
							opaleye	OPE				
							sargo	SAR				
							halfmoon	HFM				
							largemouth blenny	LMB				
							moray eel	MRE				
							triggerfish	TGF*				
							Big Fish	lingcod	LIN			
cabezon	CAB											
horn shark	HS											
Gear/Trash	Hook/Line:	Traps: (Active/Lost)	Nets:	Trash:			giant sea bass	GSB*				
<u>Comments:</u>												

*note if seen on or off transect
Don't size YOYs or moray eels.

Fish Data Sheet - North/Central

Site: _____ Date: _____ Diver: _____ Field QA: _____

5-10 min target time Size in cm (cm)# Visibility (m): _____ Buddy: _____

Transect #:		Heading:		Transect #:		Heading:		Species Code	T#	T#	T#	T#	
Beg Depth:	End Depth:	Beg Depth:	End Depth:	Beg Depth:	End Depth:	Beg Depth:	End Depth:	blue rockfish BLU					
Beg Time:	End Time:	Beg Time:	End Time:	Beg Time:	End Time:	Beg Time:	End Time:	kelp rockfish KR					
								black rockfish BLK					
								gopher rockfish GOR					
								black & yellow BYR					
								olive/yellowtail OYR					
								copper rockfish COR					
								vermillion VRR					
								grass rockfish GRR					
								treefish	TREJ				
									TREA				
								brown rockfish BRR					
								China rockfish CHR					
								YOY rockfish YOY					
								striped perch STP					
								black perch BLP					
								rainbow perch RAP					
								pile perch PIP					
								rubberlip perch RUB					
Hook/line:	Traps(A/L):	Nets:	Trash:	Hook/line:	Traps(A/L):	Nets:	Trash:	kelp greenling	KGM				
									KGF				
									KGJ				
Transect #:	Heading:		Transect #:		Heading:			sheephead	SHM				
Beg Depth:	End Depth:		Beg Depth:		End Depth:				SHF				
Beg Time:	End Time:		Beg Time:		End Time:				SHJ				
								senorita SEN					
								rock wrasse	RWM				
									RWF				
								kelp bass KB					
								barred sand bass BSB					
								garibaldi	GARJ				
									GARA				
								blacksmith BS					
								opaleye OPE					
								sargo SAR					
								halfmoon HFM					
								largemouth blenny LMB					
								moray eel MRE					
								triggerfish TGF					
Hook/line:	Traps(A/L):	Nets:	Trash:	Hook/line:	Traps(A/L):	Nets:	Trash:	lingcod LIN					
									cabezon CAB				
									horn shark HS				
									giant sea bass GSB*				

Don't size YOYs or moray eels * note if see on or off transect

Invertebrate Data Sheet - Southern

SITE _____ Date _____ Diver: _____

Visibility (m) _____ Buddy: _____

	Count all orgs. > 2.5 cm 15 Minute goal (30 x 2 m)	Transect#:			Total	Transect#:			Total
		Time:	Beg:	End:		Time:	Beg:	End:	
Abalones	Red abalone (size cm)								
	Flat abalone (size cm)								
	Pinto abalone (size cm)								
	Green abalone (size cm)								
	Pink abalone (size cm)								
	CA spiny lobster								
Cucumber	CA sea cucumber								
	Warty sea cucumber				m			m	
Sea Stars	Bat star				m			m	
	Short spined sea star								
	Giant spined star								
	Ochre star								
	Sunflower star								
	Sun star								
Slugs/snails	Chestnut cowry								
	Kellet's whelk								
	Wavy / red turban snail				m			m	
	Giant keyhole limpet								
	California sea hare								
	Black sea hare								
Crabs	Rock crab								
	Sheep/masking crab								
	Gumboot chiton								
	Rock scallop								
	Large anemone (>10cm)								
Gorgonians	Brown/golden gorgonian (>10cm)				m			m	
	Red gorgonian (>10 cm)				m			m	
Urchins	Red urchin				m			m	
	Purple urchin				m			m	
	Crowned urchin				m			m	
	Black ab (Y/N):								
	White ab (Y/N):								

Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters). If possible count at least 5 meters

Invertebrate Data Sheet - Northern/ Central

SITE _____

Date _____

Diver: _____

Visibility (m) _____

Buddy: _____

	Count all orgs. > 2.5 cm 15 Minute goal(30 x 2 m)	Transect#:				TOTAL	Transect#:				TOTAL
		Time:	Beg:	End:	Time:		Beg:	End:			
Abalones	Red abalone (size*)										
	*Measure red abalone to the nearest mm north of the Golden Gate, and to the cm south of it.										
	-No subsampling										
	-Measure first 50, then continue to count the rest										
	Flat abalone (size cm)										
	Pinto abalone (size cm)										
	Green abalone (size cm)										
	Pink abalone (size cm)										
	CA spiny lobster										
	CA sea cucumber										
	Warty sea cucumber										
Sea Stars	Bat star										
	Short spined sea star					m					m
	Giant spined star										
	Ochre star										
	Sunflower star										
	Sun star										
Slugs/snails	Chestnut cowry										
	Kellet's whelk										
	Wavy / red turban snail										
	Giant keyhole limpet										
	California sea hare										
	Black sea hare										
Crabs	Rock crab										
	Sheep/masking crab										
	Gumboot chiton										
	Rock scallop										
	Large anemone (>10cm)					m					m
	Brown/golden (>10cm)										
	Red gorgonian (>10cm)										
Urchins	Red urchin					m					m
	Purple urchin					m					m
	Crowned urchin										
	Black ab (Y/N):										
	White ab (Y/N):										

Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters). If possible count at least 5 meters

Invertebrate Data Sheet - Southern

Site:		Transect#:	TOTAL	Date:	Diver:	TOTAL
Beg. time:		End time:		Visibility:	Buddy:	
Abalones	Red abalone (size cm)			Crabs	Rock crab	
	Flat abalone (size cm)				Sheep/masking crab	
	Pinto abalone (size cm)				Gumboot chiton	
	Green abalone (size cm)				Rock scallop	
	Pink abalone (size cm)				Large anemone (>10cm)	
	CA spiny lobster			Gorgonians	Brown/golden gorgonian (>10cm)	
Cucumbers	CA sea cucumber				Red gorgonian (>10 cm)	m
	Warty sea cucumber		m			m
Sea Stars	Bat star		m	Urchins	Red urchin	m
	Short spined sea star				Purple urchin	
	Giant spined star					
	Ochre star				Crowned urchin	
	Sunflower star					
	Sun star					Black ab (Y/N):
Slugs/snails	Chestnut cowry			<p align="center">Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters). If possible count at least 5 meters</p> <p align="center">Count all orgs. > 2.5 cm 15 Minute goal (30 x 2 m)</p>		
	Kellet's whelk					
	Wavy / red turban snail		m			
	Giant keyhole limpet					
	California sea hare					
	Black sea hare					

Invertebrate Data Sheet - Northern/Central

Site:		Transect#:				TOTAL	Date:		Diver:		TOTAL
Beg. time:		End time:					Visibility:		Buddy:		
Abalones	Red abalone (size*)						Slugs/snails	Chestnut cowry			
	*Measure red abalone to the nearest mm north of the Golden Gate, and to the cm south of it.							Kellet's whelk			
								Wavy / red turban snail			
								Giant keyhole limpet			
								California sea hare			
								Black sea hare			
	-No subsampling abalone							Crabs	Rock crab		
	-Measure first 50, then continue to count the rest						Sheep/masking crab				
	Flat abalone (size cm)						Gumboot chiton				
	Pinto abalone (size cm)						Rock scallop				
Green abalone (size cm)						Large anemone (>10cm)		m			
Pink abalone (size cm)						Brown/golden (>10cm)					
						Red gorgonian (>10cm)					
CA spiny lobster						Urchins	Red urchin		m		
CA sea cucumber							Purple urchin		m		
Warty sea cucumber							Crowned urchin				
Bat star					m		Black ab (Y/N):		White ab (Y/N):		
Short spined sea star							Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters). If possible count at least 5 meters				
Giant spined star						Count all orgs. > 2.5 cm 15 Minute goal (30 x 2 m)					
Ochre star											
Sunflower star											
Sun star											

Kelp Data Sheet


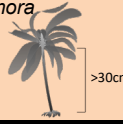


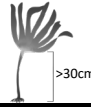




Site: _____

Date: _____

Diver: _____

Visibility (m): _____

Buddy: _____

30 x 2 m Transect 10 Minute goal time	Transect #:			TOTAL	Transect #:			TOTAL							
	Time:	Beg:	End:		Time:	Beg:	End:								
Bull Kelp  >30cm															
Pterygophora  >30cm															
Southern Sea Palm  >30															
Southern Sea Palm  <30															
Laminaria setchellii  >30cm															
Laminaria farlowii  >30cm															
Sargassum horneri  >30cm															
Feather boa (>1 m)  >1m															
Giant kelp (>1 m)  >1m															
Sargassum muticum (Y/N): _____				Sargassum horneri (Y/N): _____				Undaria (Y/N): _____				Caulerpa (Y/N): _____			

Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters).

Site: _____ Date: _____ Diver: _____ Buddy: _____

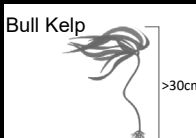
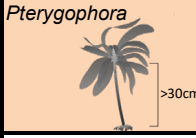
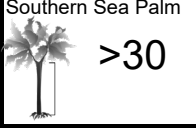
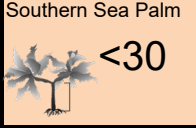
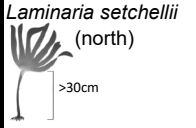

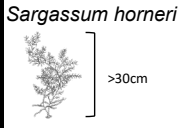

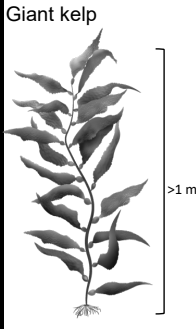
30 x 2 m Transect 10 Minute goal time	Transect #:				TOTAL	Transect #:				TOTAL	Transect #:				TOTAL
	Time:	Beg:	End:			Time:	Beg:	End:			Time:	Beg:	End:		
Bull Kelp															
Pterygophora															
Southern Sea Palm >30															
Southern Sea Palm <30															
Laminaria setchellii															
Laminaria farlowii															
Feather Boa															
Sargassum horneri															
Giant kelp (>1 m)															

Sargassum muticum (Y/N): _____ *Sargassum horneri* (Y/N): _____ *Undaria* (Y/N): _____ *Caulerpa* (Y/N): _____

Invertebrate/Kelp Data Sheet - Southern

SITE _____ Date: _____ Diver: _____

Visibility (m): _____ Buddy: _____

Count all orgs. > 2.5 cm 15 Minute goal (30 x 2 m)		Transect#:			Total	30 x 2 m Transect 10 Minute goal time		Transect#:			TOTAL	
		Time:	Beg:	End:		Time:	Beg:	End:				
Abalones	Red abalone (size cm)											
	Flat abalone (size cm)											
	Pinto abalone (size cm)											
	Green abalone (size cm)											
	Pink abalone (size cm)											
CA spiny lobster												
CA sea cucumber												
Warty sea cucumber					m							
Sea Stars	Bat star				m							
	Short spined sea star											
	Giant spined star											
	Ochre star											
	Sunflower star											
	Sun star											
Slugs/snails	Chestnut cowry											
	Kellett's whelk											
	Wavy / red turban snail				m							
	Giant keyhole limpet											
California sea hare												
Black sea hare												
Crabs	Rock crab											
	Sheep/masking crab											
Gumboot chiton												
Rock scallop												
Large anemone (>10cm)												
Gorgonians	Brown/golden gorgonian (>10cm)				m							
	Red gorgonian (>10 cm)				m							
Urchins	Red urchin				m							
	Purple urchin				m							
	Crowned urchin				m							
Black ab (Y/N):		White ab (Y/N):										
Other/comments:												

Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters). If possible count at least 5 meters

<i>Sargassum muticum</i> (Y/N):	<i>Undaria</i> (Y/N):
<i>Sargassum horneri</i> (Y/N):	<i>Caulerpa</i> (Y/N):

Do not count kelp used to attach transect

Invertebrate/Kelp Data Sheet - Northern/Central

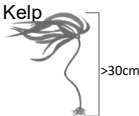
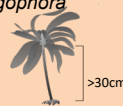


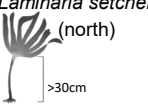

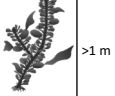
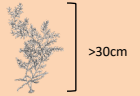
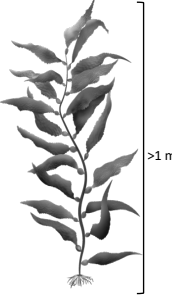
Site: _____ Date: _____

Diver: _____

Visibility: _____ m

Buddy: _____

	Count all orgs. > 2.5 cm 15 Minute goal (30 x 2 m)	Transect#:			TOTAL
		Time:	Beg:	End:	
Abalones	Red abalone (size*)				
	*Measure red abalone to the nearest mm north of the Golden Gate, and to the cm south of it.				
	-No subsampling				
	-Measure first 50, then continue to count the rest				
	Flat abalone (size cm)				
	Pinto abalone (size cm)				
	Green abalone (size cm)				
	Pink abalone (size cm)				
	CA spiny lobster				
	CA sea cucumber				
	Warty sea cucumber				
Sea Stars	Bat star				m
	Short spined sea star				
	Giant spined star				
	Ochre star				
	Sunflower star				
	Sun star				
Slugs/snails	Chestnut cowry				
	Kellet's whelk				
	Wavy / red turban snail				
	Giant keyhole limpet				
	California sea hare				
	Black sea hare				
Crabs	Rock crab				
	Sheep/masking crab				
	Gumboot chiton				
	Rock scallop				
	Large anemone (>10cm)				m
	Brown/golden (>10cm)				
	Red gorgonian (>10cm)				
Urchins	Red urchin				m
	Purple urchin				m
	Crowned urchin				
	Black ab (Y/N):		White ab (Y/N):		

30 x 2 m Transect 10 Minute goal time	Transect#:			TOTAL
	Time:	Beg:	End:	
Bull Kelp 				m
<i>Pterygophora</i> 				m
Southern Sea Palm  >30				m
Southern Sea Palm  <30				m
<i>Laminaria setchelli</i> (north) 				m
<i>Laminaria farlowii</i> (south) 				m
Feather boa 				m
<i>Sargassum horneri</i> 				m
Giant kelp (>1 m) 				m
<i>Sargassum muticum</i> (Y/N):		<i>Undaria</i> (Y/N):		
<i>Sargassum horneri</i> (Y/N):		<i>Caulerpa</i> (Y/N):		

Do not count kelp used to attach transect

Subsample abundant organisms: count at least 50 and record number counted and distance surveyed along transect (meters). If possible count at least 5 meters

UPC Data Sheet

SITE _____

Date _____

Diver: _____

Visibility (m) _____

Buddy: _____

Transect #: _____								Summary			
Time: Beg: _____				End: _____				Sub		#	
Sub	Cov	Rel		Sub	Cov	Rel		Sub	#	Cov	#
1				16				S		N	
2				17				C		B	
3				18				B		OB	
4				19				R		G	
5				20				O		R	
6				21				Total		E	
7				22						AC	
8				23				Rel	#	CC	
9				24				0		SI	
10				25				1		MI	
11				26				2		SG	
12				27				3		Total	
13				28				Total			
14				29							
15				30							

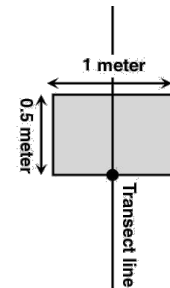
Total must = 30

Transect #: _____								Summary			
Time: Beg: _____				End: _____				Sub		#	
Sub	Cov	Rel		Sub	Cov	Rel		Sub	#	Cov	#
1				16				S		N	
2				17				C		B	
3				18				B		OB	
4				19				R		G	
5				20				O		R	
6				21				Total		E	
7				22						AC	
8				23				Rel	#	CC	
9				24				0		SI	
10				25				1		MI	
11				26				2		SG	
12				27				3		Total	
13				28				Total			
14				29							
15				30							

Substrate
 S = sand (<0.5 cm)
 C = cobble (0.5 cm -- 15 cm)
 B = Boulder (> 15 cm -- 1 m)
 R = Reef (>1 m)
 O = Other (anthropogenic, etc.)

Cover
 N = None
 B = Brown Kelp Holdfast
 OB = Other Brown algae (including invasives and feather boa)
 G = Green algae
 R = Red algae
 E = Encrusting red algae
 AC = Articulated Coralline
 CC = Crustose Coralline
 SI = Sessile Invertebrate (sponges, anemones, sandcastle worm etc)
 MI = Mobile Invertebrates (sea stars, snails, urchins, cucumbers etc)
 SG = Seagrasses (including surfgrass and eelgrass)

Relief
 0 = 0 to 10 cm
 1 = >10 cm to 1 m
 2 = >1m to 2m
 3 = >2m



Max height difference
 in box 0.5m x 1m in
 front of point

UPC/Kelp Data Sheet

Site: _____ Date: _____
 Visibility (m): _____

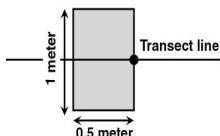
Diver: _____
 Buddy: _____

30 x 2 m Transect	Transect#:					TOTAL
10 Minute goal time	Beg time:		End time:			
Bull Kelp						m
<i>Pterygophora</i>						m
Southern Sea Palm >30						m
Southern Sea Palm <30						m
<i>Laminaria setchellii</i> (north)						m
<i>Laminaria farlowii</i> (south)						m
<i>Sargassum horneri</i>						m
Feather boa						m
Giant kelp (>1 m)						m
<i>Sargassum muticum</i> (Y/N):					<i>Undaria</i> (Y/N):	
<i>Sargassum horneri</i> (Y/N):					<i>Caulerpa</i> (Y/N):	

Transect#				
Beg time:			End time:	
	Sub	Cov	Ref	Summary
1				Sub #
2				S
3				C
4				B
5				R
6				O
7				Total
8				
9				Cov #
10				N
11				B
12				OB
13				G
14				R
15				E
16				AC
17				CC
18				SI
19				MI
20				SG
21				Total
22				
23				Rel #
24				0
25				1
26				2
27				3
28				Total
29				Total must equal
30				30

Substrate
 S = Sand (<0.5 cm)
 C = Cobble (0.5 cm -- 15 cm)
 B = Boulder (> 15 cm -- 1 m)
 R = Reef (>1 m)
 O = Other (anthropogenic, etc.)

Relief
 0 = 0 to 10 cm
 1 = >10 cm to 1 m
 2 = >1m to 2m
 3 = >2m



Cover
 N=None
 B = Brown Kelp Holdfast (holdfast of kelp on band transect)
 OB = Other Brown algae (including invasives and feather boa)
 G = Green algae
 R = Red algae
 E = Encrusting red algae
 AC = Articulated Coralline
 CC = Crustose Coralline
 SI = Sessile Invertebrate (sponges, anemones, sandcastle worm etc)
 MI = Mobile Invertebrates (sea stars, snails, urchins, cucumbers etc)
 SG = Seagrasses (including surfgrass and eelgrass)

UPC Data Sheet

Date: _____

Diver _____

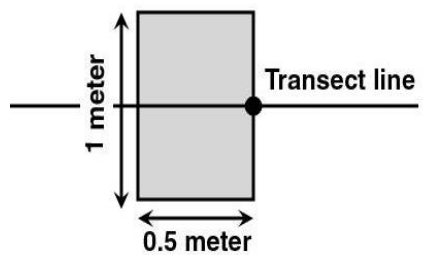
Visibility(m): _____

Buddy _____

Site: _____

Transect#				Summary		Substrate	Transect#					
Beginning time:							Summary		Beginning time:			
Ending time:									Ending time:			
	Sub	Cov	Ref	Sub	#		Sub	Cov	Ref	Sub	#	
1				S		S = Sand (<0.5 cm) C = Cobble (0.5 cm -- 15 cm) B = Boulder (> 15 cm -- 1 m) R = Reef (>1 m) O = Other (anthropogenic, etc.)	1			S		
2				C			2			C		
3				B			3			B		
4				R			4			R		
5				O			5			O		
6				Total:			6			Total:		
7							7					
8				Cov	#		8			Cov	#	
9				N			9			N		
10				B			10			B		
11				OB			11			OB		
12				G			12			G		
13				R			13			R		
14				E			14			E		
15				AC			15			AC		
16				CC			16			CC		
17				SI			17			SI		
18				MI		18			MI			
19				SG		19			SG			
20				Total:		20			Total:			
21						21						
22				Rel	#	Relief 0 = 0 - 10 cm 1 = >10 cm - 1 m 2 = >1 m - 2 m 3 = >2m	22			Rel	#	
23				0			23			0		
24				1			24			1		
25				2			25			2		
26				3			26			3		
27				Total:			27			Total:		
28							28					
29				Total must equal 30			29			Total must equal 30		
30							30					

Max height difference in box 0.5m x 1m in front of point



UPC Data Sheet

Site: _____ Date: _____ Diver: _____
 Visibility (m): _____ Buddy: _____

Transect#				Summary	
Beginning time:				Sub	#
Ending time:					
	Sub	Cov	Ref	S	
1				C	
2				B	
3				R	
4				O	
5				Total:	
6					
7				Cov	#
8				N	
9				B	
10				OB	
11				G	
12				R	
13				E	
14				AC	
15				CC	
16				SI	
17				MI	
18				SG	
19				Total:	
20					
21				Rel	#
22				0	
23				1	
24				2	
25				3	
26				Total:	
27					
28				Total must	
29				equal 30	
30					

Transect#				Summary	
Beginning time:				Sub	#
Ending time:					
	Sub	Cov	Ref	S	
1				C	
2				B	
3				R	
4				O	
5				Total:	
6					
7				Cov	#
8				N	
9				B	
10				OB	
11				G	
12				R	
13				E	
14				AC	
15				CC	
16				SI	
17				MI	
18				SG	
19				Total:	
20					
21				Rel	#
22				0	
23				1	
24				2	
25				3	
26				Total:	
27					
28				Total must	
29				equal 30	
30					

Transect#				Summary	
Beginning time:				Sub	#
Ending time:					
	Sub	Cov	Ref	S	
1				C	
2				B	
3				R	
4				O	
5				Total:	
6					
7				Cov	#
8				N	
9				B	
10				OB	
11				G	
12				R	
13				E	
14				AC	
15				CC	
16				SI	
17				MI	
18				SG	
19				Total:	
20					
21				Rel	#
22				0	
23				1	
24				2	
25				3	
26				Total:	
27					
28				Total must	
29				equal 30	
30					

Urchin Size Frequency Data Sheet

SITE _____ Date _____ Diver: _____

Depth: _____ Visibility (m) _____ Buddy: _____

~100 of each species

Time: Beg: _____ End: _____

Purple urchin test diameter (cm)		Total
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Red urchin test diameter (cm)		Total
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
>16		

Comments:

New Site Description Report

Site Information		Temperature in Celsius	
Site Name	<input type="text"/>	Air	<input type="text"/>
City / Island	<input type="text"/>	Surface	<input type="text"/>
County	<input type="text"/>	5 Meters	<input type="text"/>
State	California	10 Meters	<input type="text"/>
Latitude (deg min.min) <input type="text"/> North		Distance in Meters	
Longitude (deg min.min) <input type="text"/> West		Distance from shore	<input type="text"/>
Dates format (mm/dd/yyyy)		Average Depth of Site	<input type="text"/>
Start Date	<input type="text"/>	Permanent, Random	
End Date	<input type="text"/>	Transect Type	<input type="text"/>
Sunny, Cloudy, Raining		Always Sheltered, Sometimes Sheltered, Exposed	
Weather	<input type="text"/>	Site Exposure	<input type="text"/>
		Recent Storms	Yes / No

Transects completed (Yes/No):			
Fish	<input type="text"/>	Errors	Yes / No
Invertebrates	<input type="text"/>	Describe Errors	<input type="text"/>
UPC	<input type="text"/>		
Algae	<input type="text"/>		
Urchin Size	<input type="text"/>		

TEAM INFORMATION			
Submitted by:	<input type="text"/>	Team Member	<input type="text"/>
Checked by:	<input type="text"/>	Team Member	<input type="text"/>
Team Member	<input type="text"/>	Team Member	<input type="text"/>
Team Member	<input type="text"/>	Team Member	<input type="text"/>
Team Member	<input type="text"/>	Team Member	<input type="text"/>
Team Member	<input type="text"/>	Team Member	<input type="text"/>
Team Member	<input type="text"/>	Team Member	<input type="text"/>

Notes:

Reef Check California 2019 Data Sheets

General

[Site Description](#)

[Kelp](#)

[Kelp 6](#)

[Urchin Sizing](#)

Fish Datasheets

Southern California

[Standard Fish.2PC](#)

Portrait, columns

[Fish.2LC](#)

Landscape, columns

Southern California

[Invert x2](#)

[Invert/Kelp](#)

[Invert, large type](#)

Northern California

[Standard Fish.2PC](#)

2 per sheet. Portrait, columns

[Fish.4PR](#)

4 per sheet. Portrait, rows

Northern California

[Invert x2](#)

[Invert/Kelp](#)

[Invert, large type](#)

UPC

[UPC, 2L](#)

Standard landscape

[UPC, 2P](#)

Portrait, 2 per sheet

[UPC, 3P](#)

Portrait, 3 per sheet

[UPC/Kelp](#)

UPC, kelp combo

Changes 4/15/2015

Deleted sheets with dividing columns

Changed printer margins to maximize space

Changes 4/6/2015

Added this hyperlinked index page

Cleaned-up, making identical fields the same size, made some boxes

Enlarged algae pics

vertically center-justified cells

Changes 7/15/2016

On fish sheets

- Put depth on top and time on bottom to match how it's entered on NED
- Add a totals box for kelp greenling juvenile. Added boxes to profile sheets
- Enlarged boxes/writing space on profile fish sheets

On Invert sheets

- Change target time to 15 min. I think we agreed to change this a while ago, but never got around to doing it.
- Change distance column to a total's column, for species with two rows, second row can be distance.
- Add "No subsampling" in abalone section
- Change (size in cm) next to abalone to reflect measuring to mm north of the golden gate.
- Change subsampling language from "stop counting at ~50" to stop counting at "50 or more"

Changes 4/17/2017

- Added second line for large anemones on NorCal sheets
- Changed seaweed to kelp or algae
- Took out extra LIN from SoCal Fish, added COR
- Altered kelp figures and text to make it clearer
- Altered text about subsampling
- Altered text about red algae on UPC

Changes 3/15/2018

- Deleted rock greenling, Boccaccio, canary rockfish
- Added halfmoon, largemouth blenny, moray eel, finescale triggerfish to fish sheets

- Added "Don't size YOY's or moray eels" to datasheets
- Added California and black sea hares to invert sheet
- Added feather boa kelp to kelp sheets
- Split laminaria farlowii and setchellii in to different groups
- Added less than 30cm size category for southern sea palm.
- Split sun and sunflower stars
- Split encrusting red algae out of red algae on UPC
- Added profile UPC sheets with 2 and 3 transects
- Added kelp with 6 transects
- Removed "Unknown abalone" from invert sheets
- Altered text about subsampling
- Reformatted UPC/kelp transect
- Added single transect, large type, invert sheets
- Left aligned fish names on SoCal Sheet

Changes 1/15/2019

- Added new diagrams of algae to kelp sheets

Changes 3/4/2019

- Ochre stars added
- Boxes added to feather boa to make 50.