

Beach	Month	Day	Year	DayStarttime	Dayendtime	todaymin	Nightstarttim
playa coco	July	8	2013	5.3	6.1	40	21.3
La Flor	July	9	2013	4	4.45	45	22
Playa Vigilada	July	16	2013	11.33	12.13	40	20
Tortuguero	July	23	2013	9.05	9.5	45	20.34

Nightendtimetotnightmin	intensitytourism	numpplest	numpplcountmin	numpplmax
21.5	20 medium		35	1.1
23.3	90 low		12	0.311111111111111
24	240 none		4	0.05
22.5	136 high		7	0.222222222222222

numplave

densplastic

densdriftwood

densmetal

crabburdens	nummanmadeobjleftovernight	numdogdmin	numdognightmin	
		6	0.1	0
		0	0	0
		0	0.05	0.0125
		3	0.1111111111	0.036764705882

numblackvultures	numberturkeyvult	numpelicansmin	numfriggettsmir	numjellyfishmin
0	0	0	0.025	0
0	0	0.08888888889	0	0
0	0.425	0	0.1	0.2
0	0	0.17777777778	0	0.06666666667

numdeadfishmin	numproperties	numrockstructinocean	numhorsesmin
0	19	3	0
0.0222222222222222	3	6	0.088888888888889
0	4	0	0
0	8	0	0

numoystcatchmin	numegrets	numboatsr	numpigeor	distfromtreelinetoH2Olinem
0	0	0.025	0	36
0	0	0	0	40
0	0	0	0	25.6
0	0	0	0	12

treeheightm	Heightdifofofwaterandtreelinem
	6
	6
	7
	10

poaching	psand samples
1 unknown	taken
3 unknown	taken
7 low	taken
6 unknown	taken

protection status	disttopropfromH2Olinem	distanceofdrysandm
not protected	38	10
protected	100	20
protected	64.5	0
not protected	76	0

lightpollutionat night

residential lights, flashlights

very little, cell phone lights, flashlights, camera flashes occasionally

very little, redlights

residential lights, recreational lights

numpplatnightmin	maintenance	sand replacement	lengthofbeachm
	0.35 unknown	unknown	957
0.04444444444444445	unknown	unknown	1550
0.02916666666666667	yes	unknown	6000
0.051470588235294	unknown	unknown	unknown

fishing intensity	shape of beach	feeding ground discription
low	narrow with curve toward West side	unknown
low	narrow with curved ends	unknown
low	straight, narrow	unknown
unknown	straight, narrow	unknown

sound pollution at night
fireworks (7/7)
people talking
talking
talking

comments

recreational housing with road behind beach, items on beach: 2 volley ball, 2 soccer goals, 1 boat, light at night: flas
2 people fishing, 7 people on beach

hotel, squatters, and residential homes line the beach. There is a trail that runs parallel to the beach within 10m of tr

orks

uded wooded benches

discription	distancefromtransectm
platic sheet	3
toy	5
bottle cap	4
bottle cap	2
bottle cap	4
bottle cap	3
bottle cap	1
bottle	3
bottle cap	1
cup	1
oil canteen (1/2)	2
tooth brush	3
toy/leggo	3
piece of cup	2
shoe	5
shoe	5
piece of cup	4
small bag	3
small bag	0.5
bottle cap	6
plastic bag	2
lighter	0.5
spoon	10
carton cap	9
tubing	4
bottle	2
tube half	4
bucket piece	3
netting	1
crate piece	4
netting	0.5
bottle cap	3
plastic basket	5
piece of, sheet	1
bottle cap	4
blue rope	4
1/2 plastic gallon	5
flat blue piece	1
bottle cap	0
rope	1
flat white piece	1.5
plastic ring, part	0
bottle	6
1/2 spoon	1
top of bottle	6
straw	1
bottle cap	0

lining	0
oil cantten	0.5
bag	0.5
bottle cap	1
bottle cap	0
bottle cap	0.5
round cap	1
bottle	1
cup	6
green bottle	6
cap	6
bottle	6
cup	6
cup	8
bottle	8
rope	3
bottle cap	3
plastic piece	4
bubble wrap	2
spoon	3
cap	4
bottle	4
bottle cap	5
plastic piece	4
plastic piece	3
plastic piece	1
plastic piece	0
plastic piece	0
plastic piece	1
bottle cap	3
plastic piece	3
plastic piece	2
plastic piece	1
plastic piece	6
plastic piece	1
plastic piece	2
plastic piece	3
wrapper, shiny	4
bottle cap	1
bottle cap	1
plastic piece	3
plastic piece	3
plastic piece	1
plastic piece	2
bottle cap	4
wrapper	0
plastic piece	2

bottle cap	1
wrapper	1
plastic piece	0
plastic piece	0
plastic piece	2
plastic piece	2
rope	2
plastic piece	2
bottle cap	1
plastic piece	1
plastic piece	1
plastic piece	0
plastic piece	0
wrapper	2
rope	2
bottle ring	1
wrapper	2
bottle cap	2
bottle cap	3
wrapper	2
wrapper	3
plastic piece	2
bag	0
plastic piece	2
plastic piece	4
plastic piece	3
plastic piece	4
plastic piece	5
plastic piece	2
bottle	5
plastic piece	5
plastic piece	4
plastic piece	2
plastic piece	2
plastic piece	4
plastic piece	4
plastic piece	1
plastic piece	0.5
plastic piece	1
bottle cap	6
plastic piece	6
fork	4
plastic piece	4
bottle cap	6
plastic cap	2
plastic piece	7
bottle cap	11
bottle cap	11

wrapper	4
wrapper	4
bottle	4
plastic piece	1
bottle	4
plastic piece	3
bottle cap	
bottle cap	
bottle	4
rope	4
plastic piece	3
bowl	2
plastic piece	0
plastic piece	2
bottle cap	
plastic piece	0
ring	5
pointy cap	4
plastic piece	3
plastic piece	2
plastic piece	0
plastic piece	3
plastic piece	5
plastic piece	0
bottle cap	5
plastic piece	2
plastic piece	3
straw	2
wrapper	1
plastic piece	5
wrapper	1
balloon	1
cap	1
plastic piece	1
plastic piece	2
plastic piece	2
netting	2
plastic piece	1
plastic piece	0.5
netting	1
plastic piece	3
plastic piece	3
wrapper	1
straw	3
plastic piece	3
wrapper	1
plastic piece	0
rope	4

rope	4
plastic piece	2
plastic piece	2
plastic piece	3
wrapper	2
plastic piece	2
wrapper	3
rope	4
rope	5
plastic piece	3
plastic piece	3
plastic piece	6
straw	1
straw	2
plastic piece	4
leggo	0

density=numberobject/area (L*maxwidth*2)

beach	month	day	year	starttime	endtime	transectlengthm	
playa coco	July		8	2013	17	17.3	500
playa coco	July		8	2013	17	17.3	500
playa coco	July		8	2013	17	17.3	500
`La Flor	July		9	2013	16	16.45	500
Playa Vigilada	July		17	2013	12.45	13.3	500
Tortuguero	July		23	2013	10.15	11.2	500

description	distfromtransectm
aluminium foil	5
can	7
can	15
metal door (small	6
aluminum foil	0
none	

La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
La Flor	July	9	2013	4	4.45	500
Playa Vigil	July	17	2013	12.45	13.3	500
Playa Vigil	July	17	2013	12.45	13.3	500

discription	distfromtransectm
log	9
log	9
log	10
log	9
stick	0
drywood	1
log	6
stick	3
drywood	4
log	10
stick	11
log	9
log	9
log	9
stump	10
log	0
stick	7
stick	3
stump	10
cluster of logs and sticks	10
log	15
stick	2
log	10
stick	15
cluster of logs	0
log	15
log	10
log	5
stick	3
stick	0.5
stick	1
log	3
log	3
flat wood	3
stick	1
log	5
stick	10
stick	6
stick	3
stick	0
stick	2
stick	7
stick	4
stick	5
stick	3
stick	0.5
stick	1

log	2
stick	2
stick	2
stick cluster	3
stick	1
log	3
stick	3
stick	3
stick	3
log	4
stick	1
flatwood	2
stick	1
log	4
log	1
log	2
log	5
stick	4
log	1
stick	0
stick	1
cluster of sticks	4
stick	4
stick	1
stick	6
log	3
log	2
stick	2
log	6
clusters	4
stick	3
cluster of sticks	5
cluster of sticks	5
log	5
log	0
stick	0.5
stick	0.5
log	5
log	5
cluster of sticks	5
stick	0
cluster of sticks	5
cluster of sticks	5
cluster of sticks	5
log	3
log	3
log	3
stick	0

stick	0
cluster of small pieces of wood	0
stick	0
stick	0
stump	0
stick	3
stick	0
stick	5
log	0
stick	1
stick	1
cluster of sticks	5
stick	1
cluster of sticks	5
cluster of sticks	5
cluster of sticks	5
log	5
stick	0.5
stick	0
stick	0
stick	0
stick	1
stick	0
stick	0
stick	0
stick	2
log	0
stick	0.5
log	4
stick	1
stick	1
log	0
stick	1
stick	1
log	0
log	6
cluster of sticks	6
stick	1
stick	2
log	1
tree	3
tree	2
log	2
log	3
log	3
log	5
stick	3

log	8
cluster of stick	1
log	4
log	4
tree	3
log	0
stick	4
log	3
log	3
stick	1
stick	3
stick	6
stick	6
stick	5
stick	4
stick	0
stick	0
log	1
cluster of stick	3
cluster of stick	3
cluster of stick	3
cluster of stick	0
cluster of stick	1
cluster of stick	1
cluster of stick	1
cluster of stick	2
cluster of stick	2
cluster of stick	3
cluster of stick	3
cluster of stick	4
cluster of stick	4
cluster of stick	5
cluster of stick	5
cluster of stick	6
cluster of stick	6
cluster of stick	1
cluster of stick	1
cluster of stick	1
cluster of stick	1
cluster of stick	2
cluster of stick	2
cluster of stick	3
cluster of stick	3
cluster of stick	3
cluster of stick	6
cluster of stick	6
cluster of stick	6
tree	3

tree	4
log	6
log	6
log	6
cluster of stick	1
log	4
cococut	0
cluster of stick	2
cluster of stick	2
cluster of stick	2
cluster of stick	2
cluster of stick	2
cluster of stick	2
log	2
cluster of stick	0
log	3
log	3
log	3
log	3
log	3
log	4
log	4
log	4
log	4
cluster of stick	0
cococut	0
cococut	1
tree	2
tree	2
tree	2
tree	2
cluster of stick	0
log	4
log	4
log	4
log	4
cluster of stick	1
cluster of stick	1
cluster of stick	1
cluster of stick	1
cluster of stick	1
cluster of stick	1
log	5
tree	1
tree	4
cluster of stick	2
cluster of stick	2
cluster of stick	2

cluster of stick	2
tree	4
log	4
cluster of stick	1
cluster of stick	4
tree	1
tree	1
log	6
tree	2
stick	2
cluster of stick	2
stick	2
tree	4
log	5
log	2
stick	1
stick	0
stick	3
log	2
log	3
cluster of stick	3
cluster of stick	3
stick	2
tree	8
tree	8
log	4
log	3
log	2
cococut	1
cococut	6
stick	1
cluster of stick	3
stick	1
stick	3
stick	3
cococut	3
stick	1
cococut	3
cluster of stick	5
coconut	4
log	5
log	5
log	5
stick	5
log	5
log	5
stick	4

stick	4
log	5
tree	6
tree	5
tree	0
trunk	8
tree	0
trunk	0
log	1
log	5
log	5
log	5
log	5
log	5
log	5
log	5
log	5
log	5
log	5
log	5
log	5
tree	4
tree	3
log	1
log	1
log	1
log	5
log	5
log	5
log	5
log	5
tree	1
branch	0
tree	1
trunk	3
branch	0
trunk	1
trunk	0
trunk	0
tree	0
tree	4
log	4
log	5
log	5
tree	0
log	6
log	6
log	6
stick	7

log	2
log	4
trunk	2
stick	2
log	6
trunk	3
stick	6
tree	5
log	5
stick	2
tree	2
tree	3
tree	2
tree	3
tree	4
tree	6
branch	0
trunk	0
tree	5
log	3
trunk	3
tree	0
stick	1
log	1
branch	4
log	0
tree	2
branch	3
tree	5
trunk	3
log	4
coconut	5
tree	5
log	4
tree	2
tree	7
tree	9
trunk	1
log	4
tree	0
tree	2
log	2
log	4
log	4
log	4
tree	0
stick	0
branch	2

log	2
log	1
tree	3
cluster of sticks	3
tree	4
stick	1
tree	0
log	1
log	3
log	4
tree	1
log	5
trunk	4
log	4
cluster of sticks	4
stick	0
cluster of sticks	4
stick	2
stick	2
stick	2
stick	2
log	3
stick	4
log	2
log	3
tree	2
coconut	2
cluster of sticks	4
coconut	2
stick	1
tree	0
stick	3
coconut	2
log	2
tree	3
tree	3
cluster of sticks	2
log	1

Transect1disttoburm	Transect2Disttoburm	Transect3disttoburm	
	1	1	2
	3	2	2
	1	2	2
	1	2	3
	2	3	3
	2	0.5	3
	1	1	3
	1	0.5	
	2	1	
	1	1	
	1	0	
	1		
	1	0.5	0.5
	1	0	0.5
	1	0	0
	0.5	0.5	1
	1	1	0.5
	0.5	0	1
	1	0.5	1
	1	0.5	2
	0.5		0
	1		0.5
	0.5		0
	0.5		0.5
	1	1	5
	1	2	1
	1	4	0
	0.5	6	1
	1	2	1
	1	1	3
	0.5	6	1
	1	1	3
	1	2	4
	0.5	2	1
	1	0.5	1
	2	1	1
	3	1	2
	4	3	2
	2	0	0
	1	1	0
	1	1	1
	1	3	
	3	3	
	3	4	

	4.5	
	3	
	3	
	3	
	1	
	3	
	1	
	1	
	3	
1	1	0
1	0.5	0
2	1	1
2	1	0.5
0	0	1
0.5	0	0.5
1	1	1
1	0.5	0.5
1	0.5	0.5
2	3	0
2	0.5	
0	0	
0.5	0.5	
0.5	0	
3		
0.5		
1		
2		
2		
0.5		

beach	transectlocation	transect length	Starttime	EndTime	month	day
Playa Coco	150	36	17.3	18.1	July	8
Playa Coco	150	36	17.3	18.1	July	8
Playa Coco	150	36	17.3	18.1	July	8
Playa Coco	300	36	17.3	18.1	July	8
Playa Coco	450	36	17.3	18.1	July	8
Playa Coco	450	36	17.3	18.1	July	8
La Flor	150	40	16	16.45	July	9
La Flor	150	40	16	16.45	July	9
La Flor	150	40	16	16.45	July	9
La Flor	150	40	16	16.45	July	9
La Flor	300	40	16	16.45	July	9
La Flor	300	40	16	16.45	July	9
La Flor	450	40	16	16.45	July	9
La Flor	450	40	16	16.45	July	9
La Flor	450	40	16	16.45	July	9
Playa Viglada	150	25	12.45	13.3	july	16
Playa Viglada	150	25	12.45	13.3	july	16
Playa Viglada	150	25	12.45	13.3	july	16
Playa Viglada	150	25	12.45	13.3	july	16
Playa Viglada	300	25	12.45	13.3	july	16
Playa Viglada	300	25	12.45	13.3	july	16
Playa Viglada	450	25	12.45	13.3	july	16
Playa Viglada	450	25	12.45	13.3	july	16
Playa Viglada	450	25	12.45	13.3	july	16
Playa Viglada	450	25	12.45	13.3	july	16
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	150	12	10.15	11.12	july	23
Tortuguero	300	12	10.15	11.12	july	23
Tortuguero	300	12	10.15	11.12	july	23
Tortuguero	450	12	10.15	11.12	july	23
Tortuguero	450	12	10.15	11.12	july	23
Tortuguero	450	12	10.15	11.12	july	23
Tortuguero	450	12	10.15	11.12	july	23

year	discription	distancem
2013	plastic piece	2
2013	bottle cap	1
2013	plastic piece	1
2013	plastic piece	2
2013	bottle cap	1
2013	bottle cap	2
2013	plastic piece	1
2013	bottle cap	2
2013	plastic piece	1
2013	rope	3
2013	bottle cap	1
2013	plastic piece	1
2013	bottle cap	0
2013	bottle	0
2013	bottle cap	2
2013	bottle cap	1
2013	plastic piece	2
2013	bottle cap	1.5
2013	plastic piece	2
2013	plastic piece	0.5
2013	bottle cap	2
2013	plastic piece	3
2013	plastic piece	2
2013	plastic piece	1
2013	plastic piece	0
2013	plastic piece	0.5
2013	plastic piece	0.5
2013	plastic piece	0
2013	plastic piece	2
2013	plastic piece	1
2013	plastic piece	1
2013	plastic piece	2
2013	plastic piece	3
2013	canteen	5
2013	plastic piece	2
2013	plastic piece	2
2013	plastic piece	0
2013	plastic piece	0
2013	plastic piece	0
2013	rope	3

beach	transectlocation	transectler	Startime	EndTime	Day	month	year
Playa Coc	150	36	5.3	6.1	July	8	2013
Playa Coc	300	36	5.3	6.1	July	8	2013
Playa Coc	450	36	5.3	6.1	July	8	2013
La Flor	150	40	4	4.45	July	9	2013
La Flor	300	40	4	4.45	July	9	2013
La Flor	450	40	4	4.45	July	9	2013
Playa Vigil	150	25	12.45	13.3	july	17	2013
Playa Vigil	300	25	12.45	13.3	july	17	2013
Playa Vigil	450	25	12.45	13.3	july	17	2013
Tortuguerc	150	12	10.15	11.12	July	23	2013
Tortuguerc	300	12	10.15	11.12	July	23	2013
Tortuguerc	450	12	10.15	11.12	July	23	2013

discription distance

none

none

none

none

none

none

none

none

none

none

none

none

beach	transectlocationm	transectler	Startime	EndTime	month	day
Playa Coco	150	36	17.3	18.1	July	8
Playa Coco	150	36	5.3	6.1	July	8
Playa Coco	150	36	5.3	6.1	July	8
Playa Coco	300	36	5.3	6.1	July	8
Playa Coco	450	36	5.3	6.1	July	8
La Flor	150	40	16	16.45	July	9
La Flor	150	40	16	16.45	July	9
La Flor	300	40	16	16.45	July	9
La Flor	300	40	16	16.45	July	9
La Flor	450	40	16	16.45	July	9
La Flor	450	40	16	16.45	July	9
playa vigilada	150	25	12.45	13.3	july	17
playa vigilada	150	25	12.45	13.3	july	17
playa vigilada	150	25	12.45	13.3	july	17
playa vigilada	150	25	12.45	13.3	july	17
playa vigilada	150	25	12.45	13.3	july	17
playa vigilada	150	25	12.45	13.3	july	17
playa vigilada	300	25	12.45	13.3	july	17
playa vigilada	300	25	12.45	13.3	july	17
playa vigilada	300	25	12.45	13.3	july	17
playa vigilada	300	25	12.45	13.3	july	17
playa vigilada	450	25	12.45	13.3	july	17
playa vigilada	450	25	12.45	13.3	july	17
playa vigilada	450	25	12.45	13.3	july	17
playa vigilada	450	25	12.45	13.3	july	17
playa vigilada	450	25	12.45	13.3	july	17
Tortuguero	150	12	10.15	11.12	July	23
Tortuguero	150	12	10.15	11.12	July	23
Tortuguero	150	12	10.15	11.12	July	23
Tortuguero	150	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	300	12	10.15	11.12	July	23
Tortuguero	450	12	10.15	11.12	July	23
Tortuguero	450	12	10.15	11.12	July	23
Tortuguero	450	12	10.15	11.12	July	23
Tortuguero	450	12	10.15	11.12	July	23

year	description	distance
2013	stick	2
2013	stick	1
2013	log	2
2013	stick	1
2013	log	2
2013	stick	1
2013	log	2
2013	log	3
2013	stick	2
2013	stick	1.5
2013	log	2
2013	stick	0
2013	log	0
2013	tree	1
2013	cluster of sticks	0.5
2013	cluster of sticks	2
2013	log	3
2013	cluster of sticks	1
2013	log	2
2013	cluster of sticks	2
2013	cluster of sticks	3
2013	cluster of sticks	4
2013	cluster of sticks	2
2013	log	2
2013	log	2
2013	stick	1
2013	tree	4
2013	log	5
2013	tree	5
2013	tree	5
2013	tree	0
2013	tree	3
2013	tree	3
2013	stick	0
2013	log	2
2013	log	0
2013	cluster of sticks	0
2013	coconut	1
2013	stick	1
2013	stick	3