







« Plastic islands » in the oceans

Plastic – soup in the oceans



How can garbages be trapped far from coasts ?



1st part – our starting points

2nd part - real studies

3rd part - closer to reality

4th part - a mission : to inform

Main causes :

- Coriolis effect
- Ekman deflection
- Sea surface topography

Ocean topography : shaping the sea surface



1st part – our starting points

2nd part - real studies - a modeling experimentation

3rd part - closer to reality

4th part - a mission : to inform

An experimentation about the Coriolis effect



First video : the marble starts to roll from the center of the table. Table rotational speed : 0 rpm



Second video : the marble starts to roll from the center of the table. Table rotational speed : 10 rpm



Second video : the marble starts to roll from the center of the table. Table rotational speed : 20 rpm



Influence of winds



1st part – our starting points

2nd part - real studies

- a modeling experimentation
- following buoys

3rd part - closer to reality

4th part - a mission : to inform

Free access to data every week

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+ Focus sur		6	Télécharger le fichier	r de toutes les p	ositions	
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+ Archives	num	cl.	date	n.	lat.	lon.
English Version		-	yyyy/mm/dd	nn:mm	deg.	deg.
SÉLECTION DES DONNÉES	0118404	2	2014/09/24	00:35	28.484	-47.475
	0118404	2	2014/09/24	01:30	28.490	-47.486
Affichage des données	0118404	1	2014/09/24	02:16	28.495	-47.495
+ Bouées 2014-2015	0116404	1	2014/09/24	03:46	28.497	-47.489
Choix de la balise :	0118404	2	2014/09/24	05:25	28.505	-47,495
Bouée BOA :	0118404	2	2014/09/30	06:28	28.358	-47.751
	0118404	3	2014/09/30	08:08	28.356	-47.754
Date :	0118404	2	2014/09/30	10:00	28.366	-47.769
2014/09/30	0118404	3	2014/09/30	11:44	28.3/3	-47.766
2014/09/16	0118404	3	2014/09/30	12:31	28.372	-47.771
2014/09/09	0118404	2	2014/09/30	13:23	28.372	-47.769
2014/09/02	0118404	3	2014/09/30	14:18	28.369	-47.771
2014/00/20	0118404	3	2014/09/30	15:48	28.378	-47.773
Afficher les positions	0118404	3	2014/09/30	17:24	28.380	-47.762
	0118404	2	2014/09/30	17:56	28.378	-47.772
Afficher les cartes	0118404	2	2014/09/30	19:38	28.382	-47.760
	0118404	3	2014/09/30	20:48	28.384	-47.767
	0118404	2	2014/09/30	21:20	28.383	-47.765
	0118404	3	2014/09/30	22:36	28.387	-47.765
	0110404	2	2014/00/20	22.52	20.202	-47 760

http://argonautica.jason.oceanobs.com/html/argonautica/



http://argonautica.jason.oceanobs.com/html/argonautica/







26-11-2013









26-11-2013



Unite : cm



Unite : cm







10-12-2013



Unite : cm



Unite : cm





Current around a bump



Current forming an angle of 45° with the wind direction

24-12-2013



Unite : cm







31-12-2013









31-12-2013









31-12-2013





Souceelfcemecnes



Sourceelfdemecnes







07-01-2014



Unite : cm



Unite : cm

15-04-2014



SouceelformerCnes

Buoys followed on a big map



In conference with Patrick Deixonne in Toulouse

1st part – our starting points

2nd part - real studies

3rd part - closer to reality

- 7th continent project
- first expedition in the North Pacific Ocean
- second expedition in the North Atlantic Ocean

4th part - a mission : to inform



Patrick Deixonne



Human adventure



Locate









EXPEDITION ATLANTIQUE NORD AU MOIS DE MAI 2014 7 CONTINENT

Samples collected with a "manta" net in the North Pacific



The 7th continent !



1st part – our starting points

2nd part - real studies

3rd part - closer to reality

4th part - a mission : to inform



0% plastic and 100% French school !!

The board game commercialized by *SaveOcean* Company



English version for only €15 !



saveocean.gyroplastic@gmail.com

Question card example

Look for the odd one out !

Longitude
Attitude
Latitude



saveocean.gyroplastic@gmail.com

Question card example

What is the name of the circles formed by the ocean currents ?



saveocean.gyroplastic@gmail.com

