



SAIHC 19 in MAURITIUS, August 2023

AML ORANGE LINE

AML-3 LGR
3 Ports
500m

AML-3 LGR
3 Ports
6000m

AML-3 RTS
3 Ports
500m

AML-3 RTS
3 Ports
6000m

AML-3 XC
3 Ports
500m

AML-3 XC
3 Ports
6000m



AML-1 RT
1 Port
6000m

AML-6 LGR
6 Ports
500m

AML-6 LGR
6 Ports
6000m

AML-6 RTS
6 Ports
500m

AML-6 RTS
6 Ports
6000m

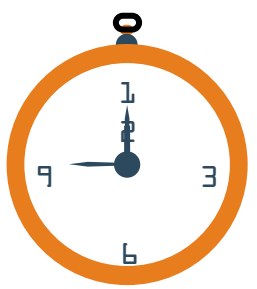
AML-6 XC
6 Ports
500m

AML-6 XC
6 Ports
6000m

How often should I be taking a profile?



General Guidelines



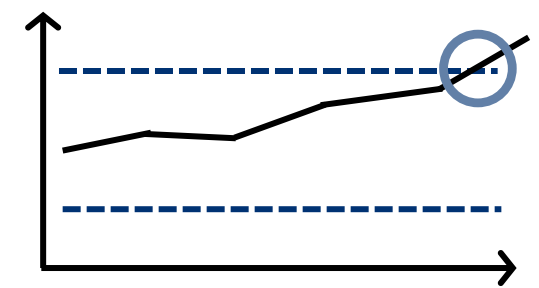
Temporal Based

Once per X hour, give or take.



Spatial Based

Once every x km.

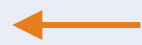


Sea Surface SV Changes

Once the sea surface SV changes by more than some fixed amount (~X m/s)

OR

- Once per day
- Never?



Certainly not compatible with an IHO-level survey

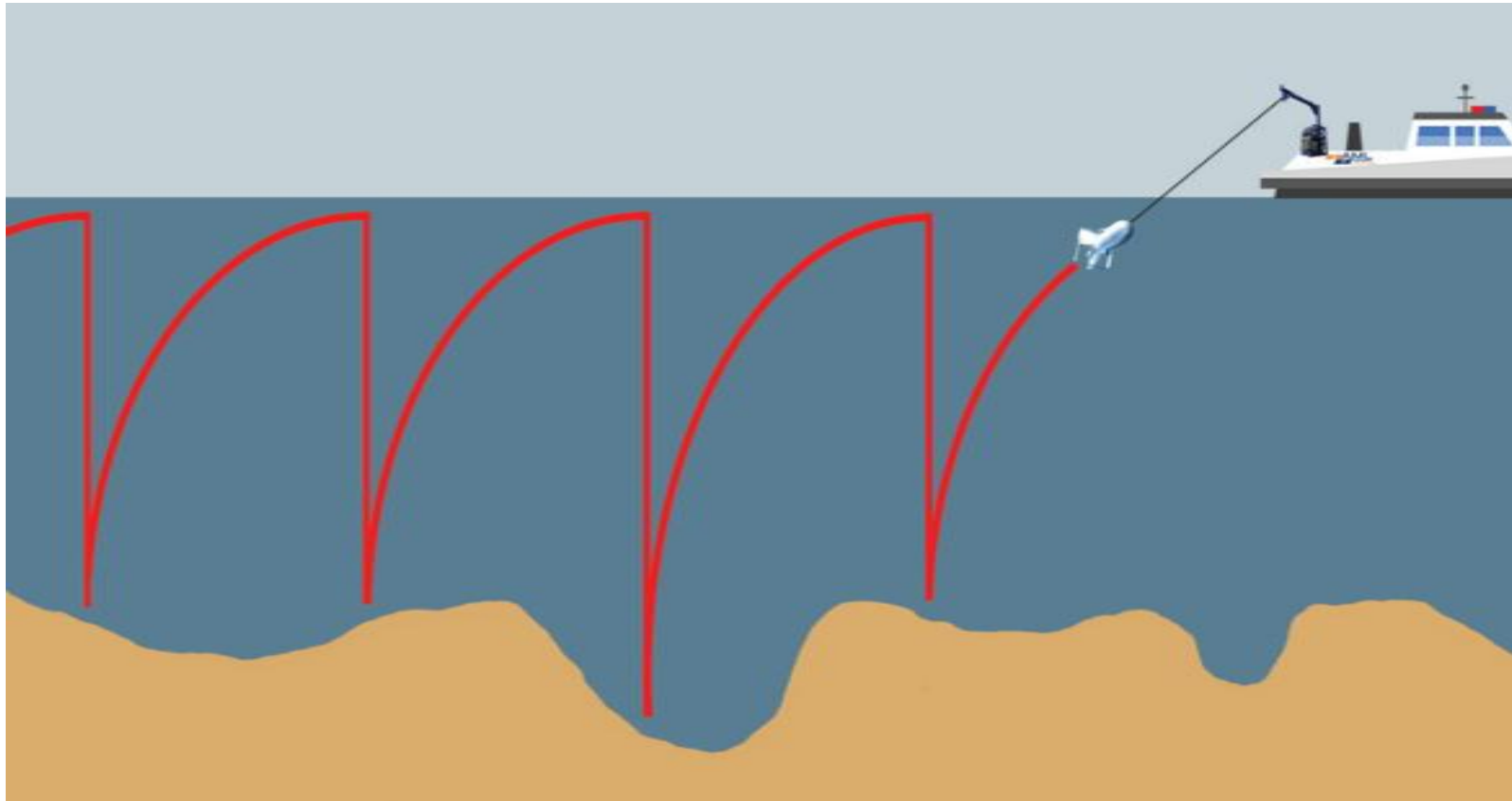
Customer Issues when experiencing variable SV Structure

- Forced to compromise between survey efficiency and data quality
 - Exposed to cost over-runs
 - Unpredictability in planning process
 - Risk to other equipment & personnel
 - Not always possible to take static profile



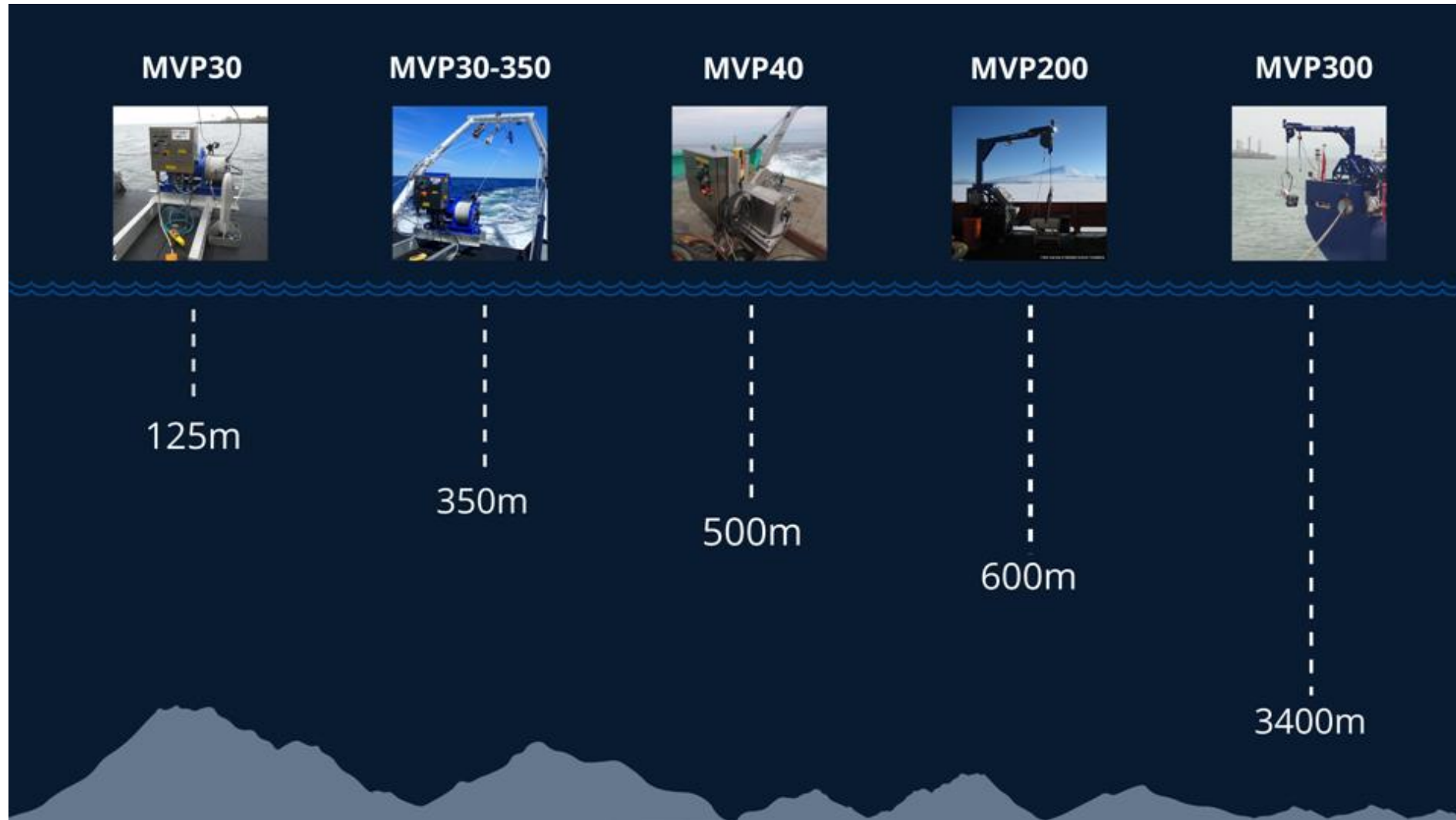
Moving Vessel Profiler (MVP)

MVP is the world's only automated, real-time underway vertical profiling solution.



Collect full water column data continuously in real-time without stopping the vessel.

Moving Vessel Profiler (MVP) Models



Moving Vessel Profiler (MVP)

	Small Systems			Large Systems	
	MVP30	MVP30-350	<i>[new]</i> MVP40	MVP200	MVP300
Installed Cable Length¹ (m)	185	440	600	660	3700
Depth obtained @ 6 knots² (m)	60	150	180	310	1250
Motor Power (Hp)	1.5	1.5	3	15	25
Approx. Dims (m)	0.7 x 0.3	0.8 x 0.3	1.0 x 0.9	1.3 x 0.7	2.0 x 2.0
Weight (kg)	120	140	190	760	1800

Some global Organisations whom have recently acquired the Moving Vessel Profiler (MVP) to improve their survey operations.



Brasilian Navy

Diretoria de Hidrografia e Navegação
MARINHA DO BRASIL

Italian Navy
Marina Militare



IEO Spain

INSTITUTO ESPAÑOL DE OCEANOGRAFÍA



Royal Canadian Navy
Marine royale canadienne (French)



Indonesian Navy TNI-AL

Tentara Nasional Indonesia Angkatan Laut



Ifremer

MVP Savings Calculator

Find out how much time and money you can save by surveying with a Moving Vessel Profiler (MVP).

Survey Duration (days) *

Mean Survey Depth (m) *

Number of Required Casts per Day *

Time to Stop Vessel to Take Static Profile (min) *

Time to Take Static Profile (min) *

Time to Re-deploy and Resume Operations (min) *

Daily Survey OpEx (USD) *

Survey Savings:

\$300000

Potential Time Savings on this Project (days):

10.0



<https://amloceanographic.com/form/mvp-survey-savings-calculator/>

Q&A

