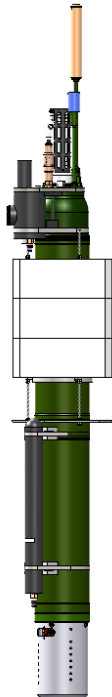


PROVOR BGC CTS5 JUMBO

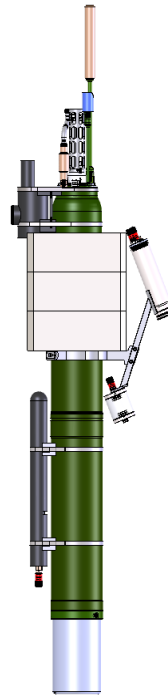
BGC-Argo meeting – AST23

21 March 2022, Monaco

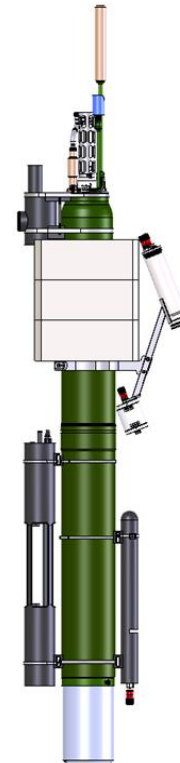




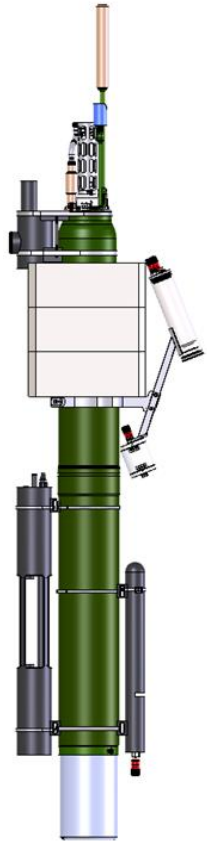
CTS4
Full BGC



CTS5
SBE41CP + 6 sensors
(Full BGC + UVP)



CTS5 Jumbo
+ 18,5 cm + 60% Energy



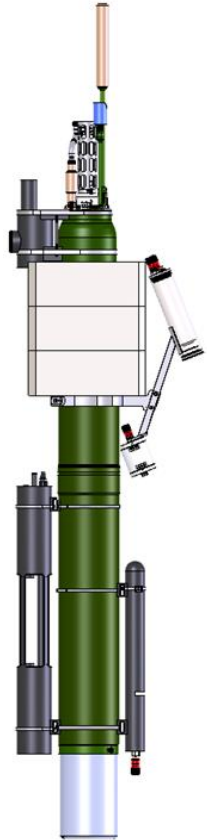
- CTS5 vs CTS4 :
 - Last generation electronic
 - New capabilities
 - New sensors
 - Graphical User Interface (GUI)
- Jumbo
 - +60% available energy
 - More room to attach sensor

CTS5 Jumbo

PROVOR CTS5

NEW CAPABILITIES & SENSORS

- Hyperspectral radiometry
- Vision profiler with embedded recognition
- Optical trap
- Multi-Parking



CTS5 Jumbo

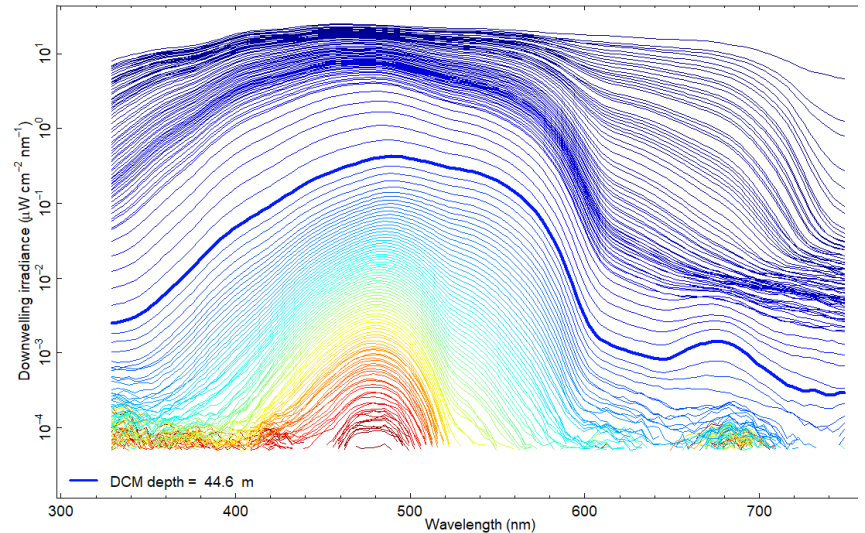
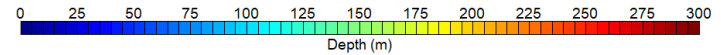
PROVOR CTS5 – RADIOMETRY HYPERSPECTRAL

- Deployed : Ed version
- Next May : Ed+Lu



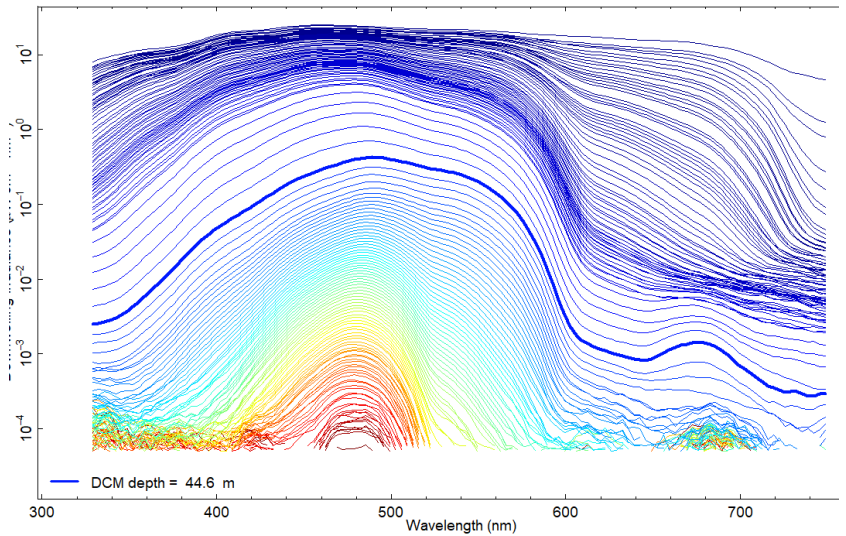
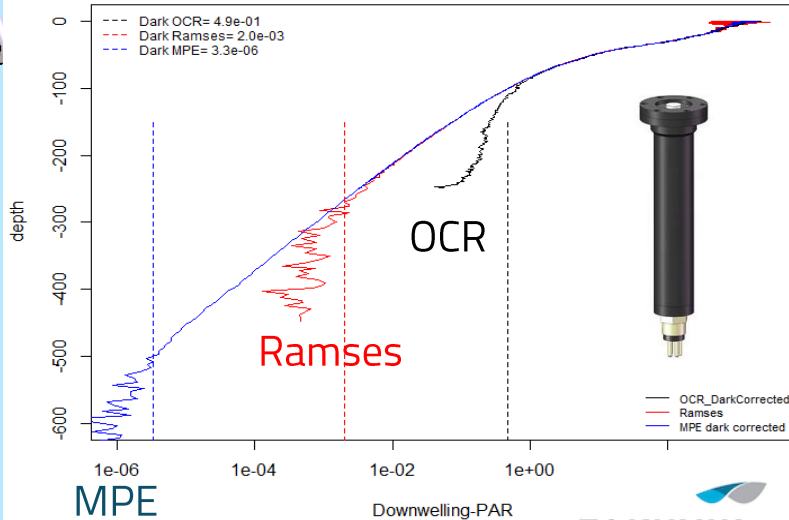
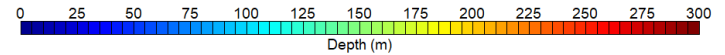
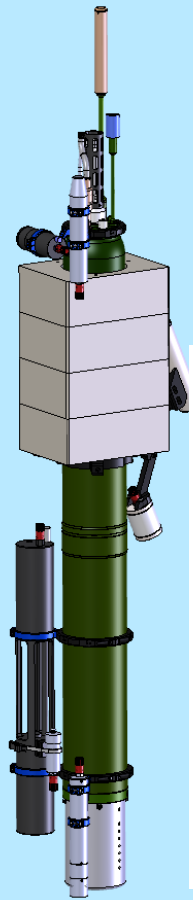
Ramses (Trios)

200 wavelengths, 0.85W, 0.33Hz



PROVOR CTS5 – RADIOMETRY HYPERSPSPECTRAL

- Deployed : Ed version
- Next May : Ed+Lu



MPE
Biospherical



PROVOR CTS5 – PARTICLE SIZE COUNTER

Deployed

- Low power, image based, particle size counter
- 18 size class, 64 to 4100 μm



PROVOR CTS5 – PARTICLE SIZE COUNTER

Deployed

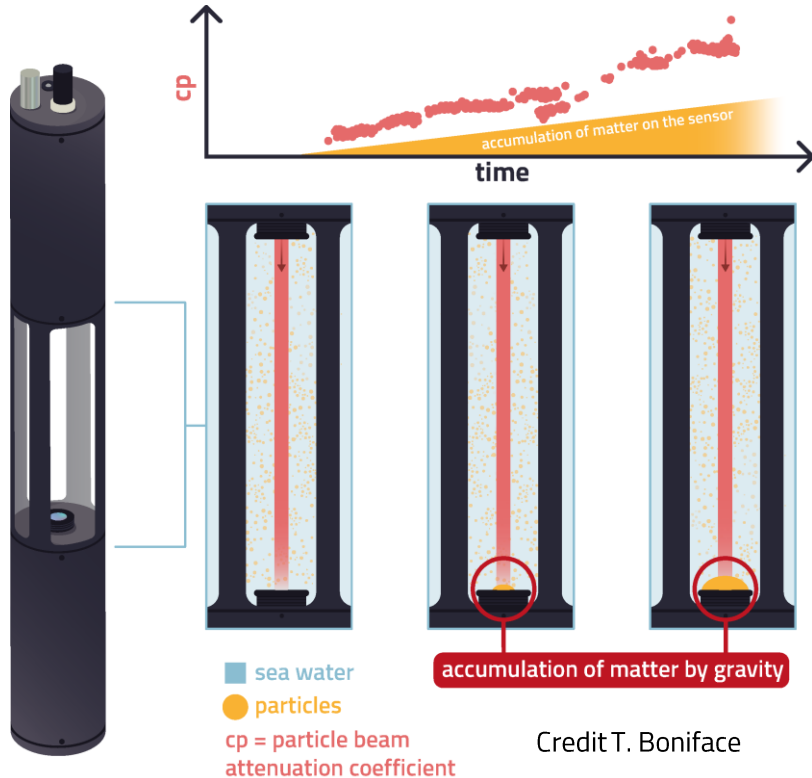
- Low power, image based, particle size counter
- 18 size class, 64 to 4100 μm

Next May

- Embedded (AI) taxonomic identification (15–25 classes)
 - Count per class vs depth
 - Volume per class vs depth
 - Mean grey per class vs depth



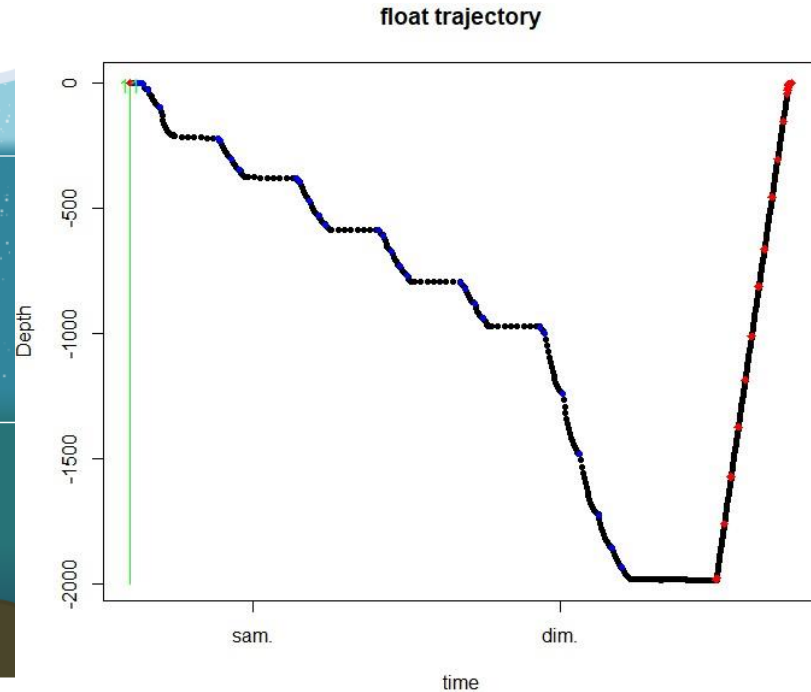
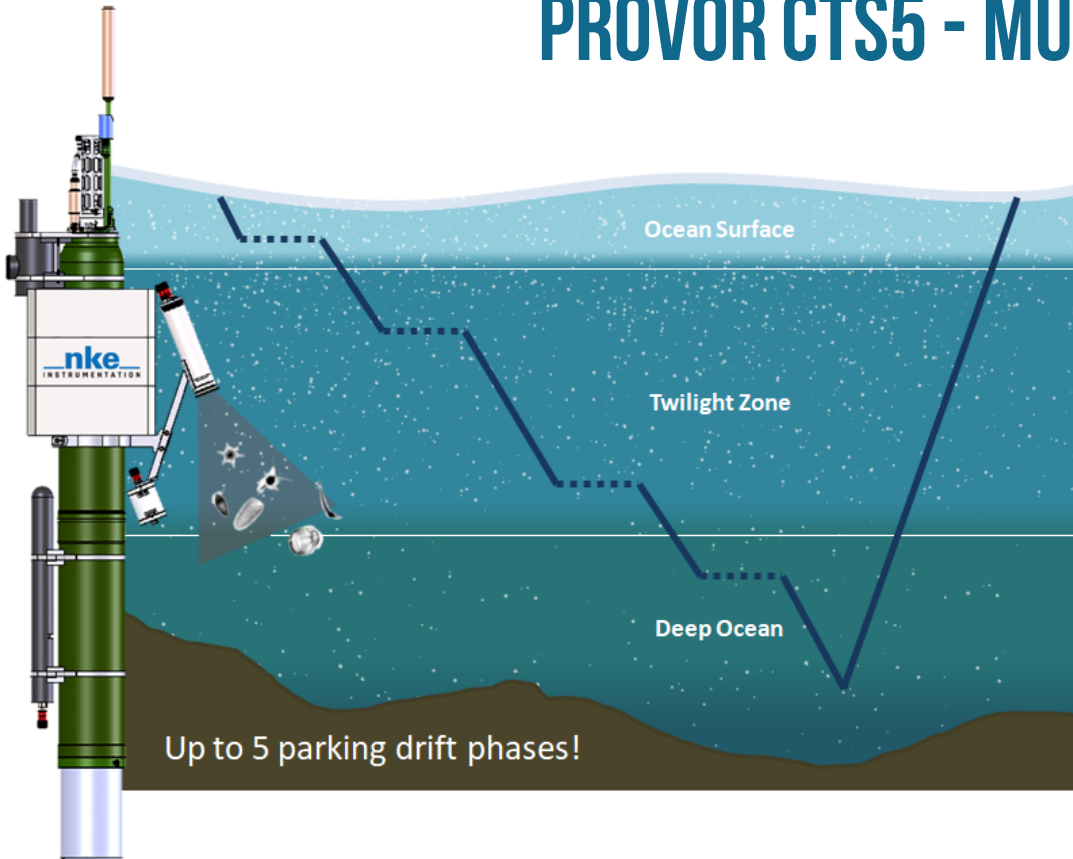
PROVOR CTS5 – OPTICAL SEDIMENT TRAP



CRover

- Optical transmission
- Transmission of sediment deposition
- Dedicated pump to flush sediment (reset)

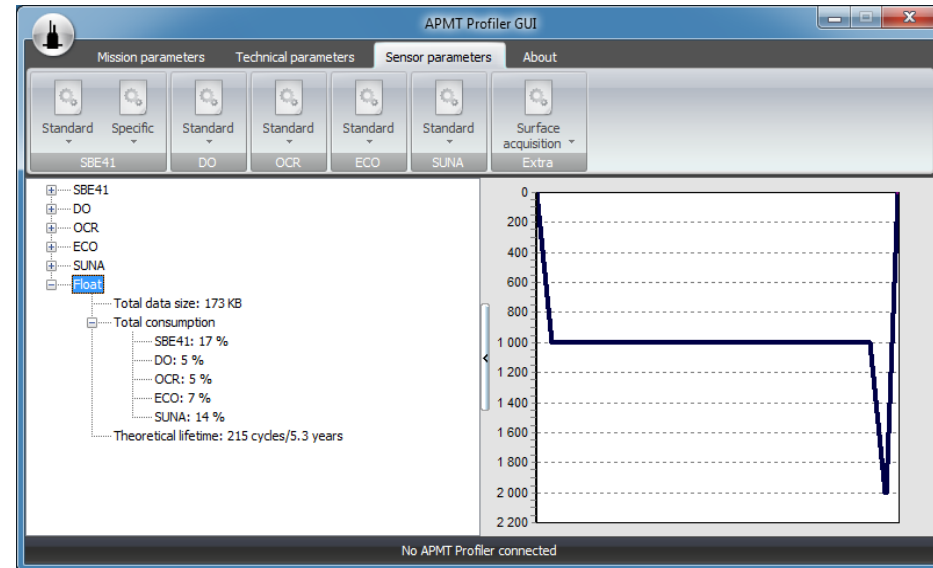
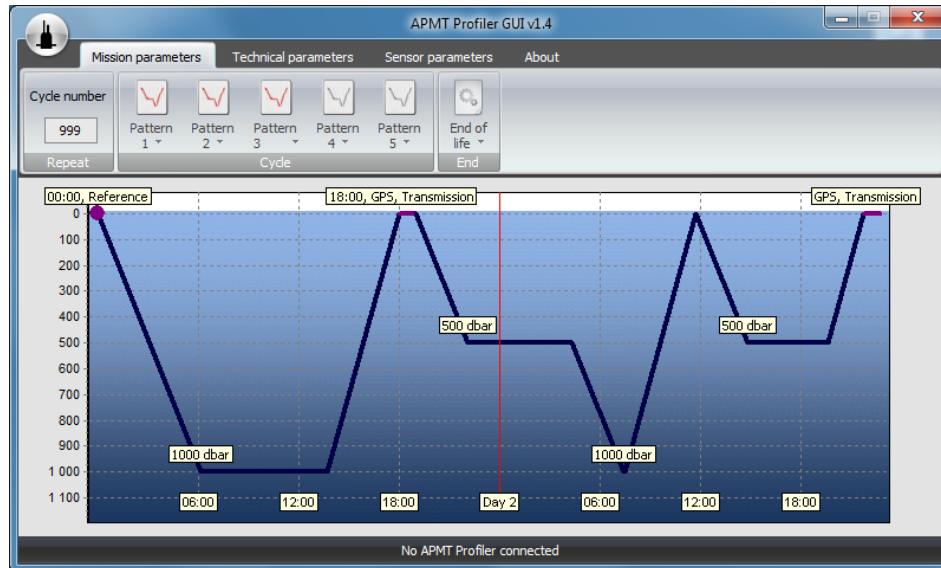
PROVOR CTS5 - MULTI-PARKING

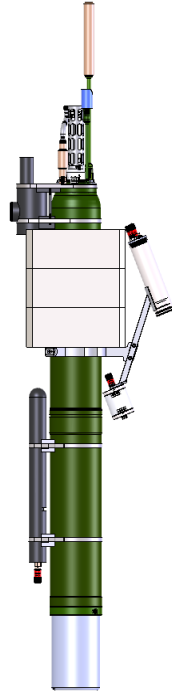


True profile realized in the Med sea

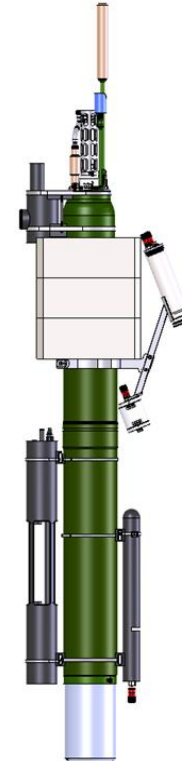
PROVOR CTS5 : GUI

- Pre-mission programming
- Energy budget and life expectancy
- Remote command at sea





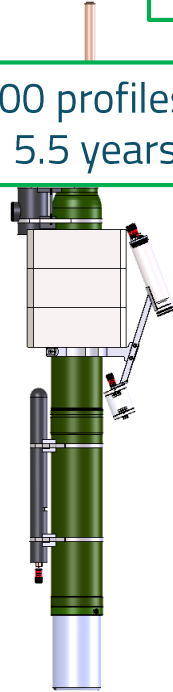
CTS5
SBE41CP +6 sensors
(Full BGC + UVP)



CTS5 Jumbo
+18,5 cm + 60% Energy

Full BGC, @2m

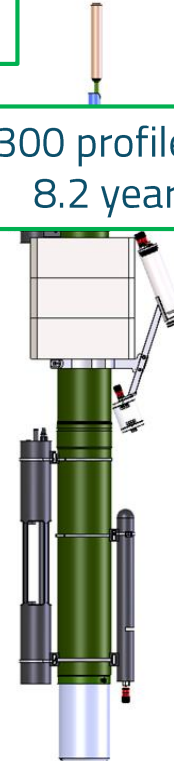
200 profiles /
5.5 years



CTS5

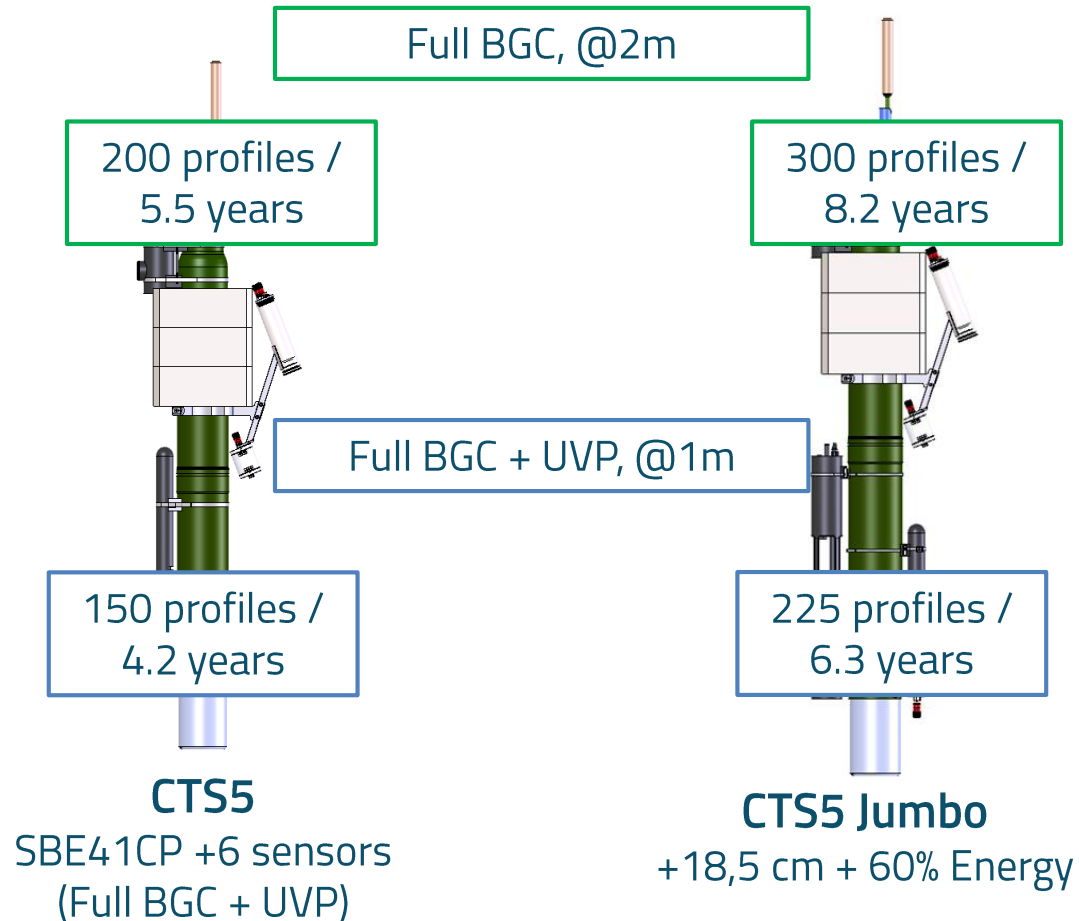
SBE41CP +6 sensors
(Full BGC + UVP)

300 profiles /
8.2 years



CTS5 Jumbo

+18,5 cm + 60% Energy





Merci