



## DSAT TecRec DIVE PLANNING CHECKLIST

### A Good Diver's Main Objective Is To Live

**Good**

**Gas**

- Required volumes for all gases determined.
- Required reserves for all gases determined.
- Actual volume in all cylinders calculated and compared to required volumes.
- All gases personally analyzed by diver immediately before dive.
- All cylinders properly marked.
- Gases compatible among team mates.
- All valves and regulators tested.
- Turn pressure(s) and gas matching (if required) determined.
- Gas loss or failure contingency plans
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Diver's**

**Decompression**

- Decompression and contingency decompression requirements compared to gas volumes available.
- All divers have two means for determining decompression requirements (computers, backup tables, depth gauge/timer).
- All divers have means for determining contingency decompression requirements.
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- \_\_\_\_\_
- \_\_\_\_\_

**Main**

**Mission**

- Mission evaluated as reasonable to accomplish within dive.
- Team understands and agrees to mission.
- All team members qualified for their roles in mission.
- Mission has been simplified as much as possible.
- Mission will not interfere with aborting the dive at any time.
- Mission has been rehearsed land/shallow water if practicable.
- All team members agree that the primary mission is to return unhurt.
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**Objective**

**Oxygen**

- No gas will be breathed at higher than PO<sub>2</sub> 1.4 (working phase) or 1.6 (deco phase).
- For gas-switch, extended no-stop dives, the gas and PO<sub>2</sub> for the upper level is 1.4 ata or less.
- OTUs and "CNS clock" calculated and within accepted limits.
- Air breaks planned, if appropriate.
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- \_\_\_\_\_

**Is**

**Inert Gas Narcosis**

- For planned depth and objective, narcosis will not be a significant factor.
- Mission simplified to accommodate narcosis and the conditions.
- Team members experienced with depth and conditions.
- Team members prepared to immediately abort the dive if narcosis becomes a factor.
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- \_\_\_\_\_

**To**

**Thermal**

- Exposure suits adequate for temperature and planned duration, plus a reasonable contingency duration.
- If using argon in dry suit, ample argon supply for dive.
- Dry suit seals, zippers and valves checked and in good working order.
- Team prepared for major dry suit failure, if dry suits used.
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**Live**

**Logistics**

- All team members know respective roles and what they will provide.
- Surface and underwater support (if used) know roles and qualified to perform
- Team knows where/when to meet, who is leading the dive/project.
- All team members know where to locate first aid/oxygen and know how to use it.
- All team members know how to contact emergency medical care/rescue.
- In water emergency protocols established.
- Divers equipped with emergency equipment specific to environment (e.g. EPIRB, drift kit.)
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### DSAT TecRec EQUIPMENT CHECKLIST

- Regulator, primary
  - on right post
  - inflator hose to primary BCD inflator
  - test breathed
  - BCD bladder test inflated; valves checked, inflators secured
- Regulator, secondary
  - on left post
  - SPG
  - inflator hose to back up BCD inflator
  - test breathed
  - BCD bladder(s) test inflated; valves checked, inflators secured
  - gas analyzed, pressure checked
- Cylinders marked – contents, max depth, diver’s name
- BCD and harness secured
- Safety reel secure and in place
- Lift bag secure and in place
- All valves open completely
- Back up mask, in pocket, straps secure
- Stage/deco 1
  - regulator test breathed
  - gas analyzed, pressure checked
  - cylinder marked – contents, max depth, diver’s name
  - valve closed (but with regulator pressurized)
  - hoses tucked and secured
- Stage/deco 2
  - regulator test breathed
  - gas analyzed, pressure checked
  - cylinder marked – contents, max depth, diver’s name
  - valve closed (but with regulator pressurized)
  - hoses tucked and secured
- Stage/deco 3
  - regulator test breathed
  - gas analyzed, pressure checked
  - cylinder marked – contents, max depth, diver’s name
  - valve closed (but with regulator pressurized)
  - hoses tucked and secured
- Stage/deco 4
  - regulator test breathed
  - gas analyzed, pressure checked
  - cylinder marked – contents, max depth, diver’s name
  - valve closed (but with regulator pressurized)
  - hoses tucked and secured
- two cutting tools – at least one accessible both hands
- gauges (as required)
  - dive computer
  - back up dive computer
  - depth gauge/timer
  - back up depth gauge/timer
  - compass
- tables
- back up tables
- slate
- mask – strap inspected
- fins – straps inspected; free ends secured
- lights (if required)
  - primary light – charged, checked
  - back up light 1 – charged, checked
  - back up light 2 – charged, checked
- weight system
  - proper amount of weight
  - second buckle (if used)
  - checked for proper working order
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