

DIVING RISK MANAGEMENT MATRIX						
Risk Level	1	2	3	4	5	Rating
Diver						
1 Experience (Related to the planned dive)	Expert (more than 200)	Good Experience (more than 100)	Practitioner (more than 50)	Trained (more than 10)	Untrained	
2 Recent diving experience (90 Days)	More than 50	24 to 49	10 to 23	1 to 9	no dives	
3 Emotional Condition	Excellent	Good	Average	Poor	Unacceptable	
Equipment						
4 Air Reserves	Exceed Requirements		Meet Requirements		None	
5 Redundancy	All equipment redundant (I have a backup for everything and I know where it is and how to use it)	Only critical Equipment is redundant	I have some backups but no redundancy (i.e. octopus on single first stage)	I have all I need and no more	I am missing some bits, but I never use them anyway	
6 Maintenance status	Excellent	Good	Close to expiration	Will be expired by the time I finish diving	Something expired or beyond usage dates	
7 Experience with this equipment (CCR v/s OC or usage of a DPV ... etc)	Expert (intimately familiar with all equipment and used in multiple recent dives)	Good Experience but little recent experience/usage or recurrent training (drills)	Trained but little or remote experience and no recurrent training/drills ever performed	Only trained but no usage or drill performed after initial training		
Environment						
8 Planned Depth	Well within experience and recent experience	Well within experience	Near or at certification limits	Near or at certification limit with little experience	Exceeds certification limits	
9 Water Temperature	Comfortable	Cold but I have enough protection to stay warm during entire dive (included deco)	Cold but I will be ok, maybe a bit hand and feet cold during deco	Very cold and I will need to move during deco to stay warm	Insufficient thermal protection: I doubt I can stay warm today	
10 Visibility	High I have no doubt I can see my buddy if we separate and can navigate only by visual references	Fair I have to stay close and better know how to use/have a compass	Low (less than 3m 10 ft) and familiar and equipped with/for conditions	Possible brown out/silt out and I am familiar and equipped	Possible brown out and unfamiliar untrained unequipped	
11 Overhead (only if trained)	No overhead whatsoever	Penetration of a single wide open ambient with no additional connection with others	The cavern zone	Cave/wreck	Untrained for overhead	
12 Surface support	Full, competent and equipped	Suitable for the need	Some available	None required	Required but not available	
13 Decompression	None	Some	One gas change	Long and with multiple gas changes or rebreather	Loss of any gas might result in need to abbreviate deco or insufficient bailout	
Pressures						
14 Alternate Dive available	There is plenty of dive sites to see: if the planned one is unavailable I will dive another			This is my last chance to dive this site	I have to dive here today	
15 Peer pressure	None	Well planned and within experience but on site conditions worst than expected		I am uneasy with this site/conditions, but everybody wants to dive here	Come along you will be ok: we dove this site in worst conditions	
16 Expedition Pressure	We already dove all the sites of this trip and achieved all objectives	There are a few dives to complete objectives but well on schedule and confident to complete	We on a tight schedule to complete the objectives	We will not complete all the objectives of the trip	We have to make this dive otherwise we will have wasted this trip	
Additional/personal factors						Total Risk rating ->
Risk is within normal parameter. Diving is inherently risky. Do not take unnecessary risk and adhere to your personal limits in order to stay within your training and experience						16-32
Elevated Risk. Dedicate extra time to review contingency plans, available gas, surface support and site conditions. Delay or replan the dive. Be extra careful with those around you and their mental status (signs of stress, voiced concerns) and competency equipment of surface support. Be very careful not to violate any personal limit and ensure your team mates do the same.						33-55
High Risk. Any 5 should be reason to abort the dive: these are already in a 'never do that area'. Dedicate extra time for planning and review contingency plans, consider a team review and consult a more experienced diver if available (maybe discuss your plans with your instructor). Examine methods to reduce the risk to the extent possible. Consider making training dives before executing this plan. Split dive objectives in multiple dives.						56 and above. Any 5.