Appendix 1

APPENDIX 1: Calculation of pressure and threat scores. Pressures are extrinsic forces, activities, or events that have already had a detrimental impact on the integrity of the management unit or protected area over the past 5 years. Pressures include both legal and illegal activities and may result from direct and indirect impacts of an activity. Threats are potential or impending extrinsic pressures in which a detrimental impact is likely to occur or continue to occur over the next 5 years.

		Occurrence of pressure in pas	t 5 years: Yes <u>c</u>	or no (if ' <u>yes</u> ' please scor	e the pressure be	elow)	
Trend (is the activity or impact of the pressure changing?)		Extent (at what scale is the pressure in the PA being felt or operating?)		Impact (how marked is the negative effect or influence of the pressure?)		Permanence (approx. system recovery i.e. how long would it take for the PA to recove if the pressure was removed?)	
Description	Score	Description	Score	Description	Score	Description	Score
Increased sharply	5	Throughout (> 50%)	4	Severe	4	Permanent (> 100 years)	4
Increased slightly	4	Widespread (15% – 50%)	3	High	3	Long term (20 – 100 years)	3
Remained constant	3	Scattered (5% – 15%)	2	Moderate	2	Medium term (5 – 20 years)	2
Decreased slightly	2	Localised (< 5%)	1	Mild	1	Short term (< 5 years)	1
Decreased sharply	1	-	-	-	-	-	-
		manence (maximum score = 4 > dividual pressures identified for	the PA.	nimum score = 1 × 1 × 1 :	= 1).	·	
			the PA. Quantify	ing threats	·	low)	
	of all scores of in	dividual pressures identified for Prediction of threat in next 5	the PA. Quantify years: will <u>or</u> he threat in	ing threats	ore the threat bel	ow) Permanence (approx. system how long would it take for the if the predicted threat was	PA to recove
Total pressure = sum (∑) Probability (how certain	of all scores of in	Vertical pressures identified for Prediction of threat in next 5 Extent (at what scale is t	the PA. Quantify years: will <u>or</u> he threat in	ing threats won't (if ' <u>will</u> ' please sco Impact (how marked	ore the threat bel	Permanence (approx. system how long would it take for the	PA to recove
Total pressure = sum (∑) Probability (how certai threat will appear in th	n are you that the he next 5 years?)	dividual pressures identified for Prediction of threat in next 5 Extent (at what scale is t the PA being felt or op	the PA. Quantify years: will <u>or</u> he threat in erating?)	ing threats won't (if <u>'will</u> ' please sco Impact (how marked effect or influence o	ore the threat be is the negative of the threat?)	Permanence (approx. system how long would it take for the if the predicted threat was	PA to recove removed?)
Total pressure = sum (∑) Probability (how certai threat will appear in th Description Very high	n are you that the he next 5 years?)	dividual pressures identified for Prediction of threat in next 5 Extent (at what scale is t the PA being felt or op Description	the PA. Quantify years: will <u>or</u> he threat in erating?) Score	ing threats won't (if <u>'will</u> ' please sco Impact (how marked effect or influence of Description	ore the threat bel is the negative of the threat?)	Permanence (approx. system how long would it take for the if the predicted threat was Description	PA to recove removed?)
Total pressure = sum (∑) Probability (how certain threat will appear in th Description Very high High	n are you that the he next 5 years?) Score 5	dividual pressures identified for Prediction of threat in next 5 Extent (at what scale is t the PA being felt or op Description Throughout (> 50%)	the PA. Quantify years: will <u>or</u> he threat in erating?) Score 4	ing threats won't (if ' <u>will</u> ' please sco Impact (how marked effect or influence of Description Severe	ore the threat below the negative of the threat?) Score 4	Permanence (approx. system how long would it take for the if the predicted threat was Description Permanent (> 100 years)	PA to recove removed?) Score 4
Total pressure = sum (∑) Probability (how certai threat will appear in tl Description	n are you that the he next 5 years?) Score 5 4	 dividual pressures identified for Prediction of threat in next 5 Extent (at what scale is t the PA being felt or op Description Throughout (> 50%) Widespread (15% - 50%) 	Quantify years: will or he threat in erating?) Score 4 3	ing threats won't (if ' <u>will</u> ' please sco Impact (how marked effect or influence of Description Severe High	bre the threat below the negative of the threat?) Score 4 3	Permanence (approx. system how long would it take for the if the predicted threat was Description Permanent (> 100 years) Long term (20 – 100 years)	PA to recove removed?) Score 4 3

Total threat = sum (Σ) of all scores of individual threats identified for the PA.

Source: Adapted from Ervin, J., 2003c, WWF: Rapid assessment and prioritization of protected area management (RAPPAM) methodology, WWF Forests for Life Programme, Gland Note: This is the Online Appendix of Carbutt, C. & Goodman, P.S., 2013, 'How objective are protected area management effectiveness assessments? A case study from the iSimangaliso Wetland Park', Koedoe 55(1), Art. #1110, 8 pages. http://dx.doi.org/10.4102/koedoe.v55i1.1110. PA, protected area.