The Belize Spawning Aggregation Working Group
January– December 2018 WORKPLAN

Goal: *To determine the success of management measures in enhancing Nassau grouper, Mutton & Cubera Snapper spawning aggregations.*

Objective 1: **Monitoring & Research**

Activities	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Member(s) spearheading activity
1.1 Training & use in size estimation using lasers											▓		WCS/ERI
1.2. Conduct Nassau grouper, Mutton & Cubera Snapper SPAG monitoring at 10 (*Rise & Fall, Halfmoon Caye, Caye Bokel) priority sites using new fish count protocol and underwater video; Monitoring of Water Temperature	▓	▓	▓	▓	▓	▓						▓	All members
1.3. Update dive safety table											▓		WCS, with input from all members
1.4 Ensure DAN insurance for dive team members													All members
1.5 Estimate costs of monitoring at sites								▓	▓	▓			All members
1.6 Determine size of fish using laser sizing system	▓	▓	▓	▓	▓	▓				▓	▓	▓	WCS, All members
1.7 Rediscovering & Discovering SPAG Sites	▓	▓	▓	▓	▓	▓				▓	▓	▓	All members
1.8 Determine cost and requirements of acoustic studies	▓	▓	▓	▓	▓	▓				▓	▓	▓	

Objective 2: **Meetings/SPAG Working Group**

Activities	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Member(s) spearheading activity
2.1. Hold regular SPAG Meetings			▓			▓			▓			▓	ERI & WCS
2.2. Carry out evaluation of 2018 work plan & planning session for 2019 work plan			▓										All members
2.3. Develop annual report												▓	ERI

Objective 3: **Database/Data Analysis**

Activities	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Member(s) spearheading activity
3.1. Enter 2017 & 2018 monitoring data	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	All members
3.2 Enter new monitoring data	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	ERI, Fisheries, WCS, BAS, SEA
3.3 Upload reports to web site							▓	▓	▓	▓	▓	▓	WCS
3.4 Ensure Reports reflect new protocol by including means and standard deviations												▓	ERI

Objective 4: **Education and Public Awareness.**

Activities	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Member spearheading activity
4.1. Routine update of web site and upload news items	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	WCS and ERI
4.2 Upload items from members on FB	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	All members
4.3 Produce annual newsletter								▓	▓	▓	▓		BAS

Activities	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Member spearheading activity
4.4 Broadcast TV 'spot', including on local cable TV	▓	▓	▓									▓	WCS, SEA, Fisheries,BAS and all members
4.5 Monitoring teams to include fishers wherever possible for mutual benefit	▓	▓	▓									▓	All members

Objective 5: **Enforcement Monitoring**

Activities	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Member spearheading activity
5.1. Request updates on enforcement at spawning sites	▓	▓	▓									▓	All members
5.2. Estimate costs of enforcement at sites								▓	▓				Fisheries, SEA, BAS, WCS, TASA
5.3 Request support from Coast Guard for special joint patrols								▓	▓	▓			Fisheries & Working Group
5.4 Involvement of fishers in surveillance at SPAG sites where appropriate	▓	▓	▓									▓	All members