



Observer Data Quality Issues

PIRFO Debriefers's Workshop

SPC Headquarters
18th – 22nd November 2019
Noumea, New Caledonia





Data Quality

General principles and a recent issue



Data Quality

Issues...

Misreporting compromises ACCURACY

Under-reporting compromises COMPLETENESS

Changes in protocols compromises RELIABILITY

Delay in data submission compromises TIMELINESS



Data Quality

Examples of the issues..

- Data not provided by the observer
- Errors on observer forms
(dates, positions, catches, etc.)
- Missing data on the observer forms
- Incorrect protocols used
- Errors at data entry



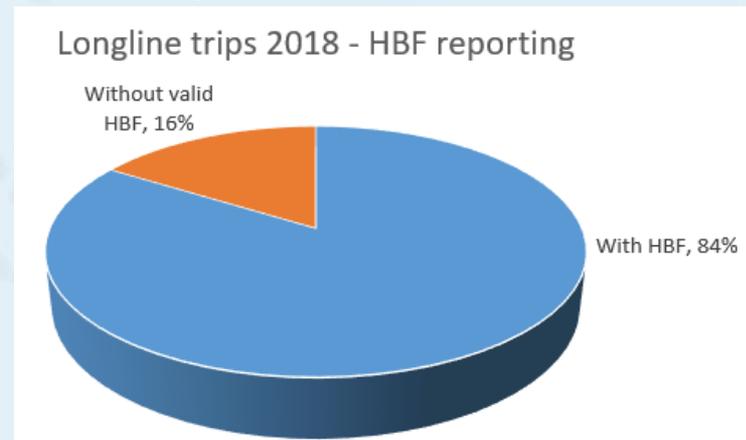
Data Quality

An important current issue...

“Hooks between floats (HBF)” on Longline sets

Some issues ...

- MISREPORTING Values much higher than possible
- NON-REPORTING Not reported at all





Data Quality

Important current issues...

“By-Catches”

on PS gear type

“Hooks between floats (HBF)”

on LL gear type

- Mandatory field in WCPFC scientific data provisions
- Important for stock assessments
- Used as a indicator for TARGET species



Data Quality

Why it is important...

Ensures the data are representative for ...

- Scientific analyses → advice to conserve tuna stocks
- Informed management decisions and action
- Informed MCS decisions and action

If there are data quality issues, then ...

“Garbage in” means “Garbage out”

...incorrect/uninformed ADVICE and DECISIONS !



Data Quality

How do we ensure quality...

- Identifying issues in data collection process
 - Proper placement and briefing of observers
 - Observer debriefing, check data before processing...
 - E-Reporting & E-Monitoring will help ...
- Database systems identify/resolve issues



Data Quality

How do we ensure quality... (cont.)

- Reports/tools/documents identify issues
 - DQ Reports, data verification scripts
- Independent (SPC) data audits
- Feedback to observers & debriefers is important !

Detail Coverage

Export to Excel

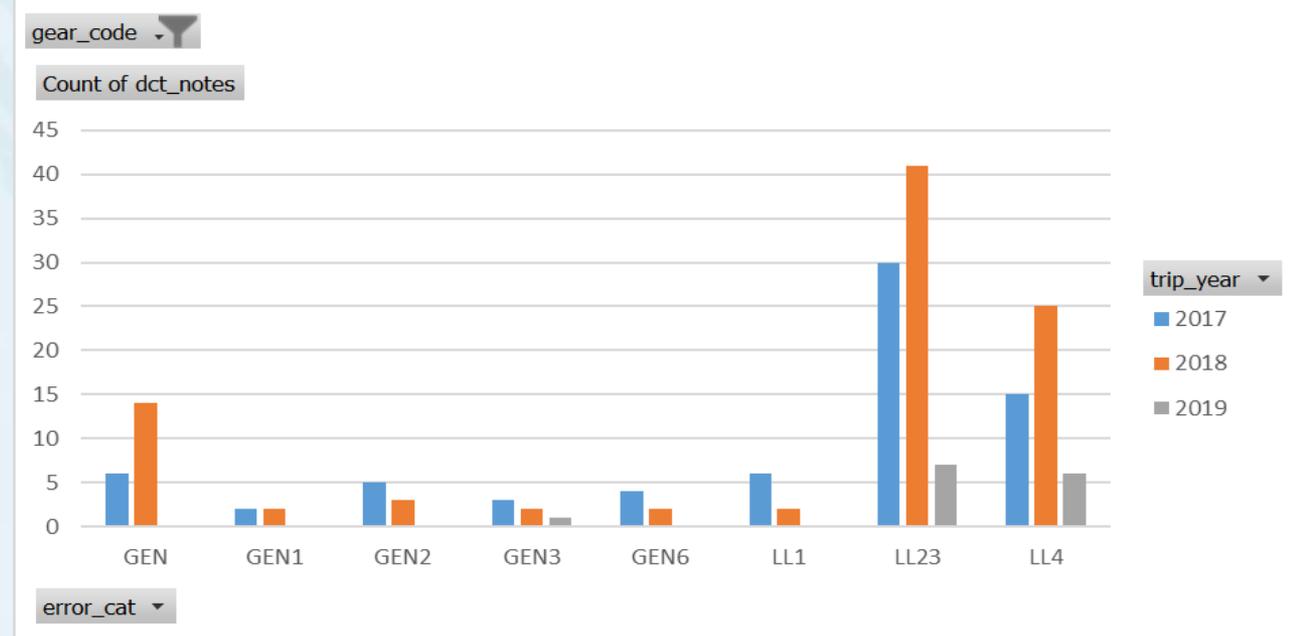
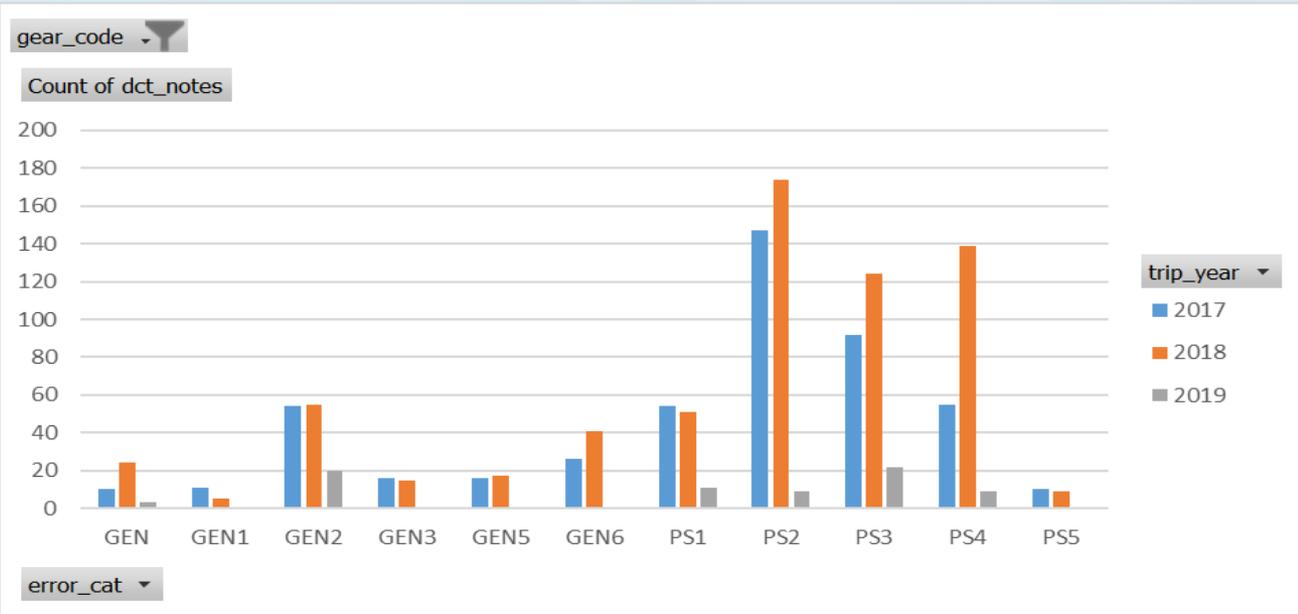
YEAR	FISHING COMPANY	VESSEL NAME	FLAG	GEAR	VM
2014	UNKNOWN	GUANG YUAN YU 338		Longline	05-
2014	UNKNOWN	GUANG YUAN YU 339		Longline	16-
2014	UNKNOWN	HUA NAN YU 716		Longline	25-
2014	UNKNOWN	HUA NAN YU 717		Longline	04-

Data Issues reported by DCTs



obsprg_code	staff_code	tripno	vesselname	flag	gear	depart_date	return_date	trip_days	pb_make	pb_model
FAOB	JBT	18-02	MARORAOI	KI	S	30-Jan-18	8-Mar-18	38	WESTEC	56PB2
FAOB	JBT	18-03	MARORAOI	KI	S	11-Mar-18	25-Mar-18	15	WESTEC	56PB-2
FAOB	CAF	18-03	MARORAOI	KI	S	31-Mar-18	19-Apr-18	20	MARCO	56 P2
FAOB	CAF	18-04	MARORAOI	KI	S	21-Apr-18	11-May-18	21	MARCO	56-P-2
FAOB	SVP	18-01	MARORAOI	KI	S	13-May-18	24-May-18	12	MARCO	
FAOB	ATU	18-03	MARORAOI	KI	S	26-Jun-18	25-Jul-18	30	WESTEC	56" N
FAOB	ATU	18-04	MARORAOI	KI	S	27-Jul-18	12-Aug-18	17	WESTEC	56PB
FAOB	ATU	18-05	MARORAOI	KI	S	16-Aug-18	24-Sep-18	40	WESTEC	56PB
FAOB	LAB	18-02	MARORAOI	KI	S	27-Sep-18	15-Oct-18	19	WESTEC 56	56PB-Z
FAOB	LAB	18-03	MARORAOI	KI	S	20-Oct-18	12-Nov-18	24	WESTEC 56	56PB-Z
FAOB	JNV	18-05	MARORAOI	KI	S	15-Nov-18	5-Dec-18	21	WESTEC 56	56PB-ZMOTOR-ZX
FAOB	JNV	18-06	MARORAOI	KI	S	8-Dec-18	28-Dec-18	21	WESTEC	56PB-ZMOTER-EZ

PS & LL Trips Data Issues reported by DCTs





Thank You!

