Puget Sound Kelp Conservation and Recovery Plan Workshop

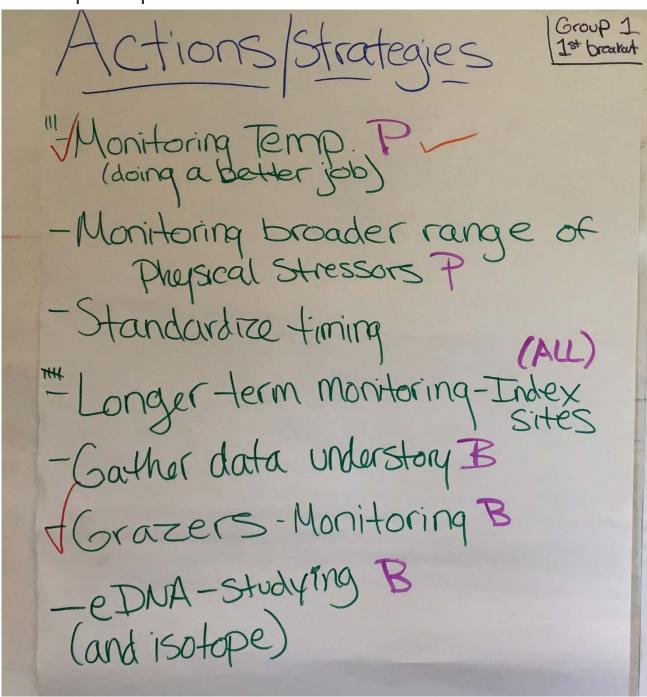
February 28, 2019

Flip Chart Notes

Breakout Session #1

Discussion question: What are possible short term and long term actions/strategies that can help address the data gaps (physical stressors, biological stressors, human impacts)?

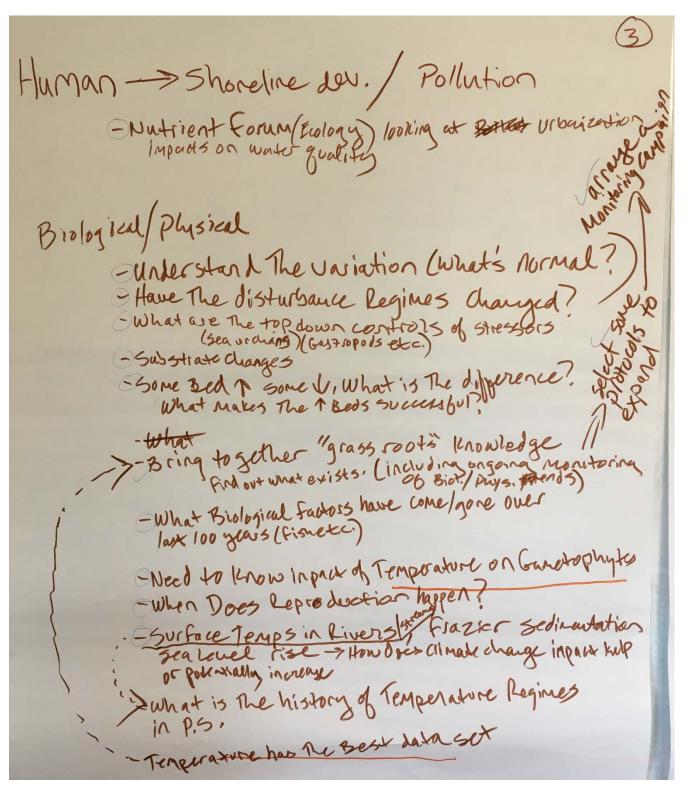
Group 1- Flip chart notes



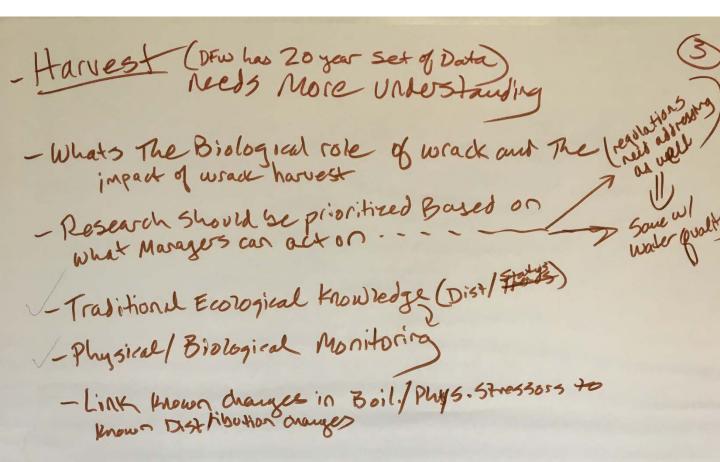
Actions Cont Group 1 -Look at Other protocols (Norway, California) (ALL) - Study Smaller Samples to indenify stressors (P thelp Crab recruitment study + Trash - Dealing with trash in (HI)
Near by Community / Near by derelict gear caught in Kulp -Looking at connections to kelp and Land use (HI) Grop1 Actions Physical Stressors Actions (P) - hesearch project on sediments -Light? -Changes? -Mapping-change over time -Turbidity-Measuring - Measuring light, nutrients, etc. Top Four & Light 4 Turbidity + Hutrients/Salinity + Temp

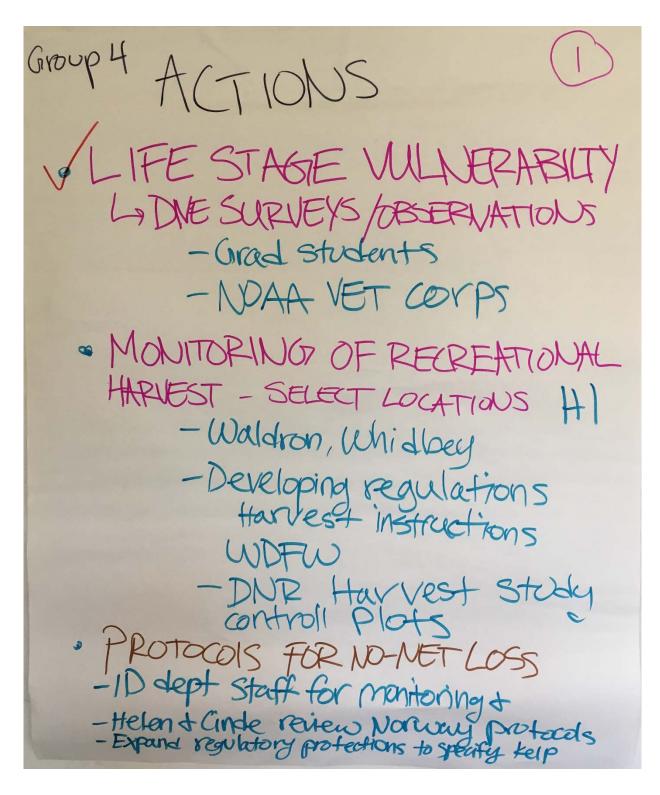
Group 2- Flip chart notes

SHURT & Long-term ACTIONS/STRATICIES help Address DATA GAPS. PHYSICAL STRESSORS (P) BIOLOGICAL STRESSORS (R)	that can	7
help Address DATA GAPS.	Human (H	1
PHYSICAL STRESSORS (P) BIOLOGICAL STRESSORS (10)	(INTERNATE)	
THUSICAL STRESSORS		
TEMP. > NOAD DATA'S TEMP MONITORS - BULB, MID. STIPE, BOTTOM	P)	
LARGE SCALE DATA AUAIL'S FOCUS ON FINIR SCALE		
Designation of the second of t		
SALISHS Econystem Moders exist for the guplity. 1/5 this DATA suitable for our Newstrans of Threating the locustrous in Decrine (P)(B)(H1)		
- InvestigAte / locations in Decrine (P)(B)(H1)		
V-NUTRIENT MONITORING IN HZO 68) (P) V-NUTRIENT MONITORING IN KELP HIS SUR (R) (P) V-TRUPPINC INTERACTIONS - DIET DATE FROM FISH WHICH EAT GRAZER: - SYNTHE SIZE AVAIL. TEMP DATE SETS (P)	(R)	
- SUNTHE SIZE MAN TO THE DATE FROM THE OWNER SOLVE	2 (8)	
- SYNTHESIZE AVAIL TEMP DATA SETS (P) THROWHOUT SOUND		
- STRICK NUTRIENT OUTFLOW RELATIONSHIP TO KEEP (P) (H1) - Rale of beneficial MICROBIAL COMMUNITHER (B) - Competitive interactions html.		
Rale of beneficial MICROBIAL COMM		
J BOATING (MPACTS (HI)		
HARVESTING MORTS (HI)		

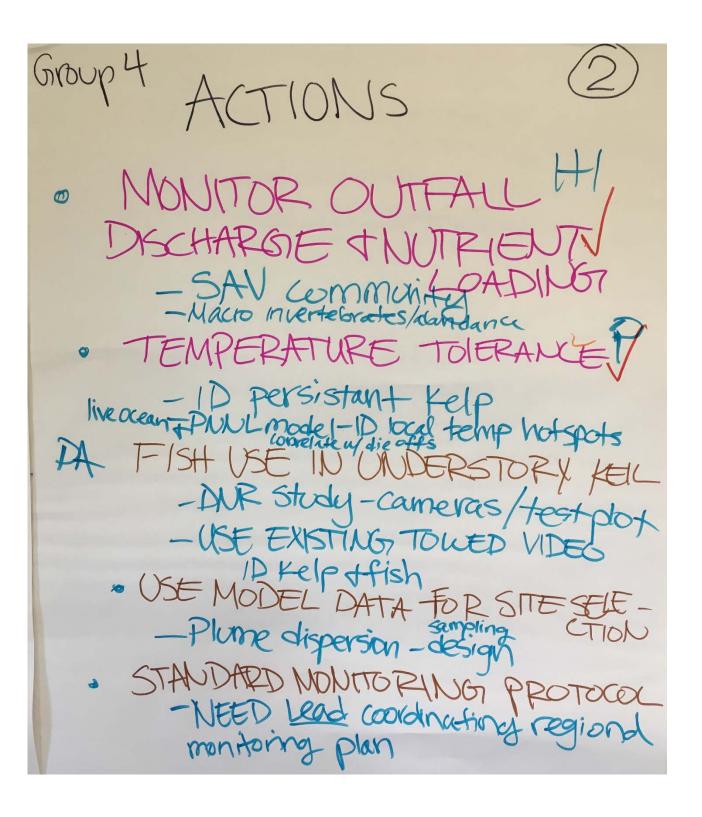


Group 3- Flip chart notes





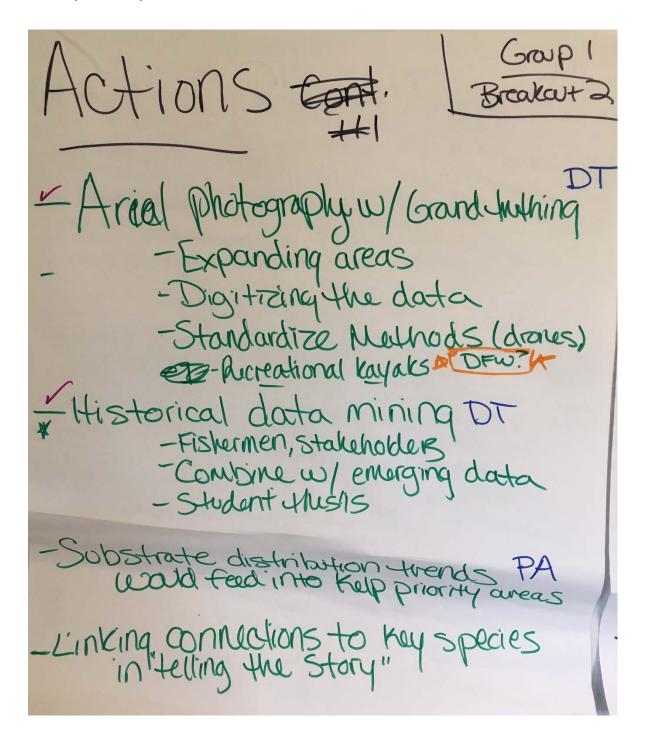
Group 4- Flip chart notes



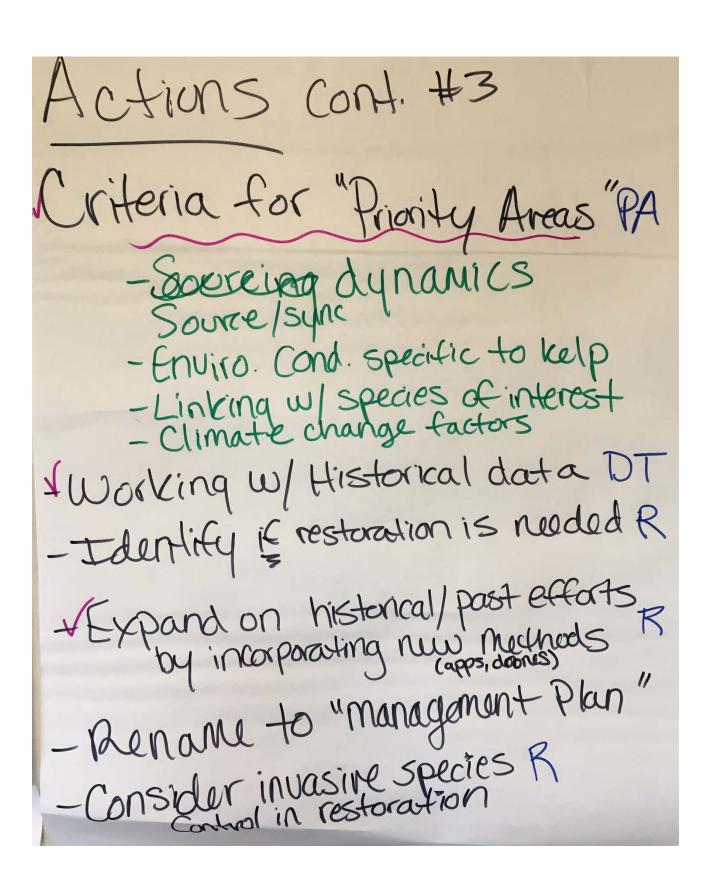
Breakout Session #2

Discussion question: What are possible short term and long term actions/strategies that can help address the data gaps (distributions and trends, priority areas, restoration)?

Group 1- Flip chart notes

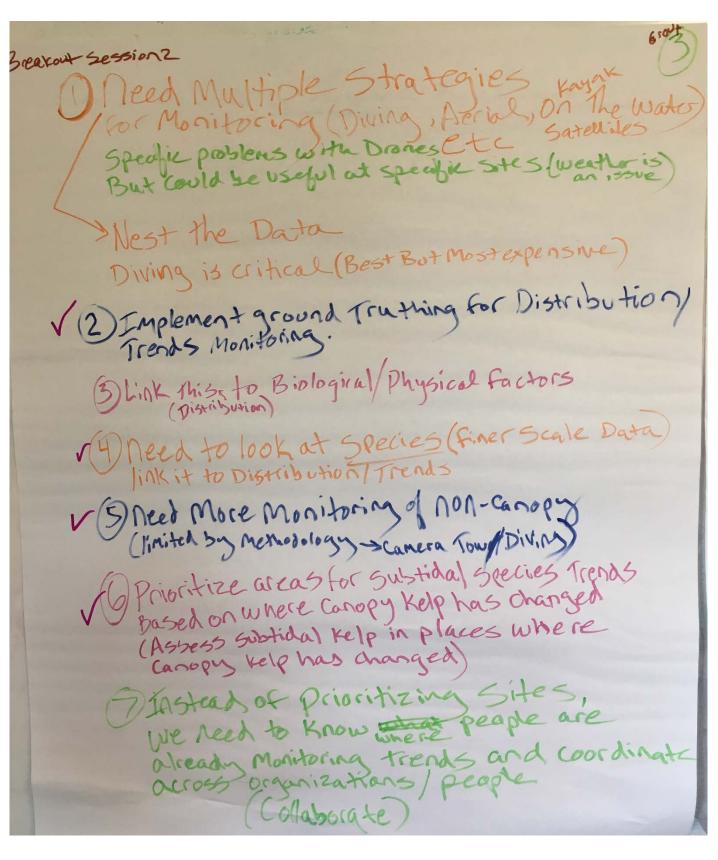


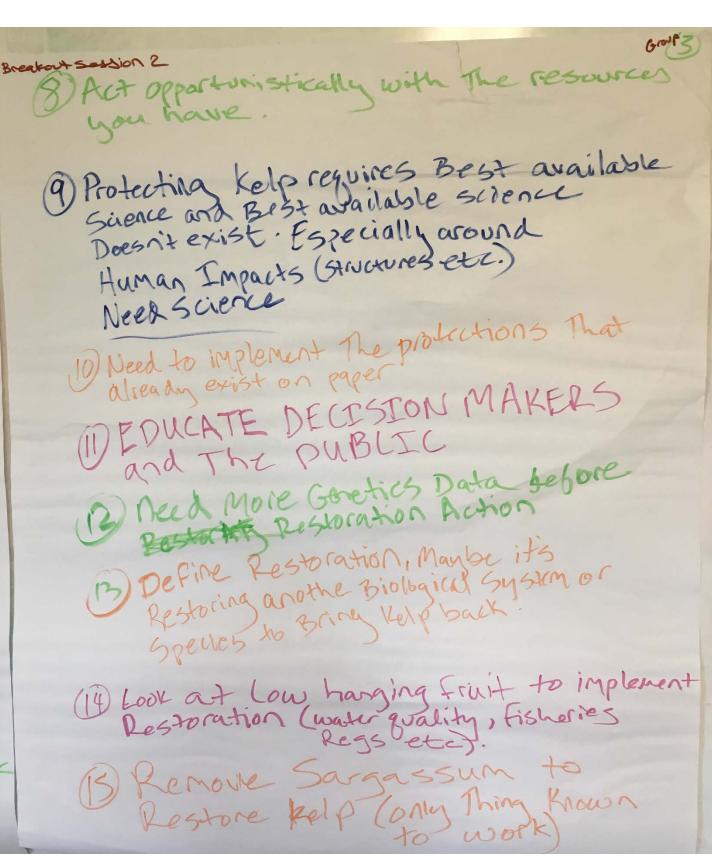
Actions Cont. #2 Grap!
-Use areas of recruitment to aduise PA & PA
- Make a list of criteria to PA identify priority areas Coordinate with current vegetative monitoring efforts to attract Support/funding PAAR - Fish USE data for worder all kelp. targeted to species of concern.
- Sourcing dynamics - Hydrodynamic modeling - Incorporate protection into plan - Pares Assa Experimental Kelps production (in lab)

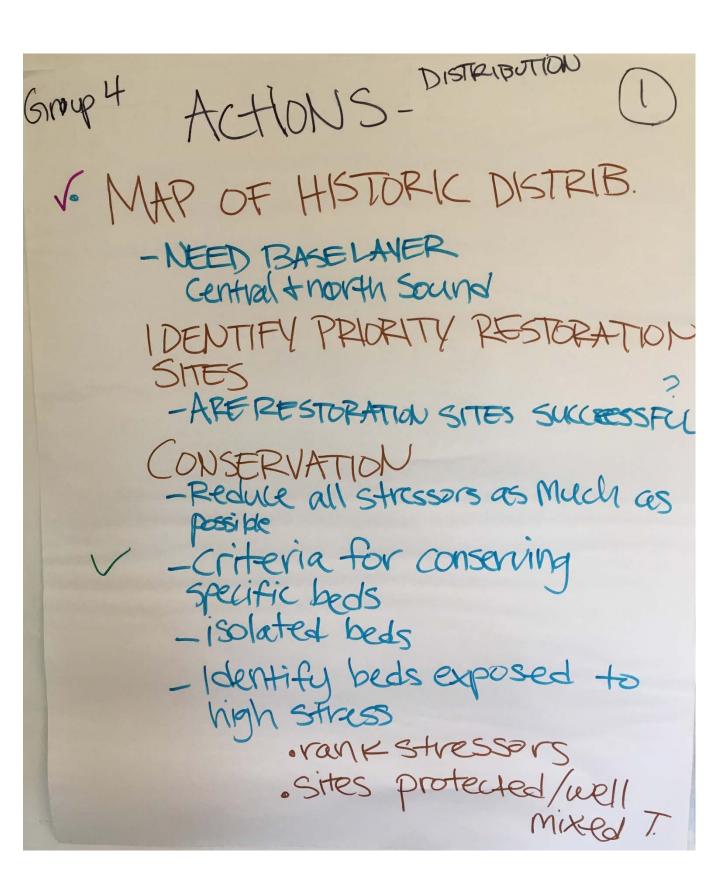


Man 5 5	DISTRIBUTION 2 TRENDS (DT) PRIORITY AREAS (PA) RESTOR ATION (R)
	DISTRIBUTION & TRENDS
	- STUDY GENETIC DIFF. DISTRIBUTION
	- FINE SCALE GENETIC DIFF (DT)
	- LADOSSTORIATION NEEDS (DT) (R)
*	- UNDERSTANDING PLANENIC DIST. (DT) (B)
	DETTER UNDERSTANDING of long-term
	teends of understory us. can apply
	- DUNTIFY MABITAT AVAILABILITY P SWITCH (PA)
	- BETTER UNDERSTANDING of long-term DT teends of understanding us. CANAPOY - IDENTIFY HABITAT AVAILABILITY (DT) (PA) PRIORITY AREAS (DT) (PA) - Develop Comment for During AREAS
	- Develop CRITERIA FOR PRIODITY AREAS (PA)
	- Conservation vs. Restoration For Indiana I Proportion
	STRATEGIA I
	V- IDONTIFY DISTRIBUTION OF UNDOPETION
	As SPP. SPECIER AS POSS IN IPA
	V-IDANTIFY DISTRIBUTION OF UNDERSTORY AS SPP. SPECIFIC AS POSSIBLE (PA) RESTORATION
	-BMPs for restoration methods (R)
	- Develop Sterins warm Ho tolerant (R)
	- IS NEARBY SUBSTRATE A limiTANG FACTORS (R)

Group 3- Flip chart notes







Group 4 ACTIONS Distribution
SOCIAL SURVEY - Managers/ Non native kelp-(Long range)
on WHAT FISH ARE WHERE + WHERE
*Focus on Salmon + Kelp -Sports fishing database?
- annecdotal data - standard protocol /survey - volunteers fishing observ
COMMUNICATIONS STRATEGY OVIDEOS HISTORIC MAPS

-Distribtion Group 4 DESTRIBUTIONS (TIDNS MAPPING METHODS - Blue/Green Li DAR? RVDATA HOUSING/CENTRAL -PISCO model VMRCS & Partners -Kayaks + Pilots DEVELOP DRONE PROTOCOL - LIME WILL MRC KAYAK data Remote Sensing - MULTIBEAM - Under Story P/A -Gary Green ? DMP, ECK, NOAA COASTAL ATLAS -2016 photos helpful for P/A Group 4 ACTIONS TRENDS SAMPLING DESIGN & PROTOGOLS FOR TRENDS MONITORING + DAYCE - long term change vs Natural a variability. Similar to eelgrass KELP HEALTH - more than PrA

Group 4-

Flip chart

notes

PRIORITY AREAS

Restoration

Remove Sorgassum (T)

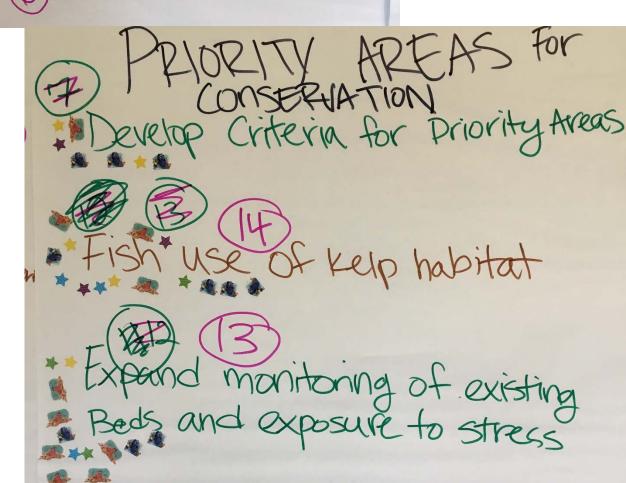
Population genetics/strain development (tolerent yeap seeds)

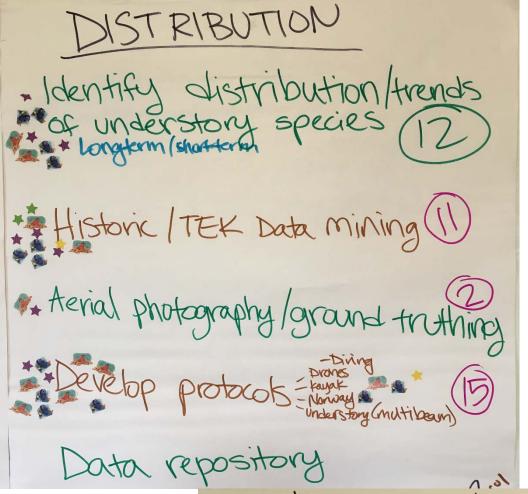
BMP for restoration methods

Criteria for restoration sites

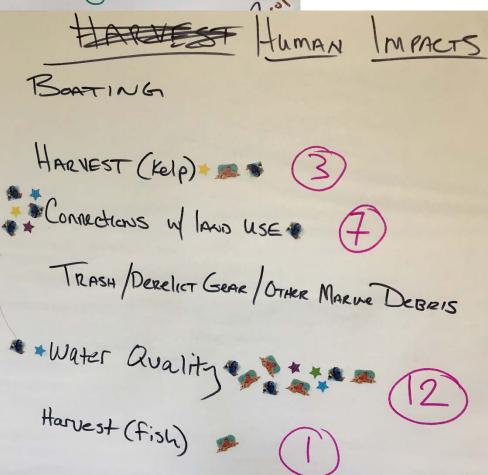
substantinistorical presence/way

Voting Activity Results





Voting Activity Results



Voting Activity Results

