SCUFN 32-07.3A

Development of the integration of SCUFN Operations Web Services

Aug. 2019.

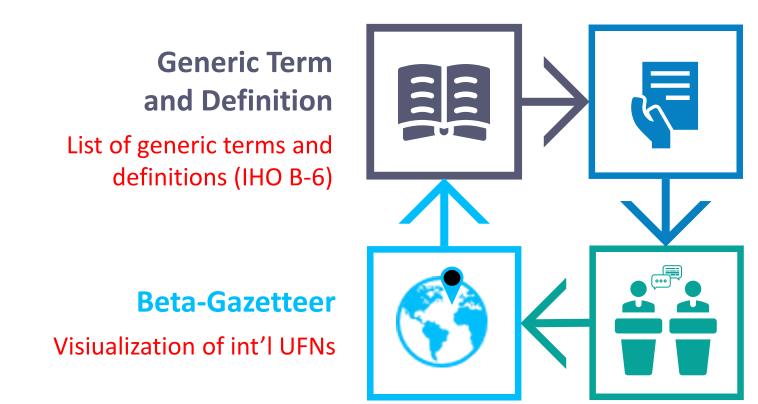
Republic of Korea

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I. Overview of SCUFN Operations Web Services

- Provide support for simplifying & automating the process of registering int'l UFNs
- Aims Systematically manage UFN proposals and database
 - Enhance the utilization of UFN Data with S-100



Proposal Submission

Uploading & managaing Proposals, - Support various formats such as web form, PDF, MS-Word

Proposal Review

Status and statistics of reviews, History of reviews

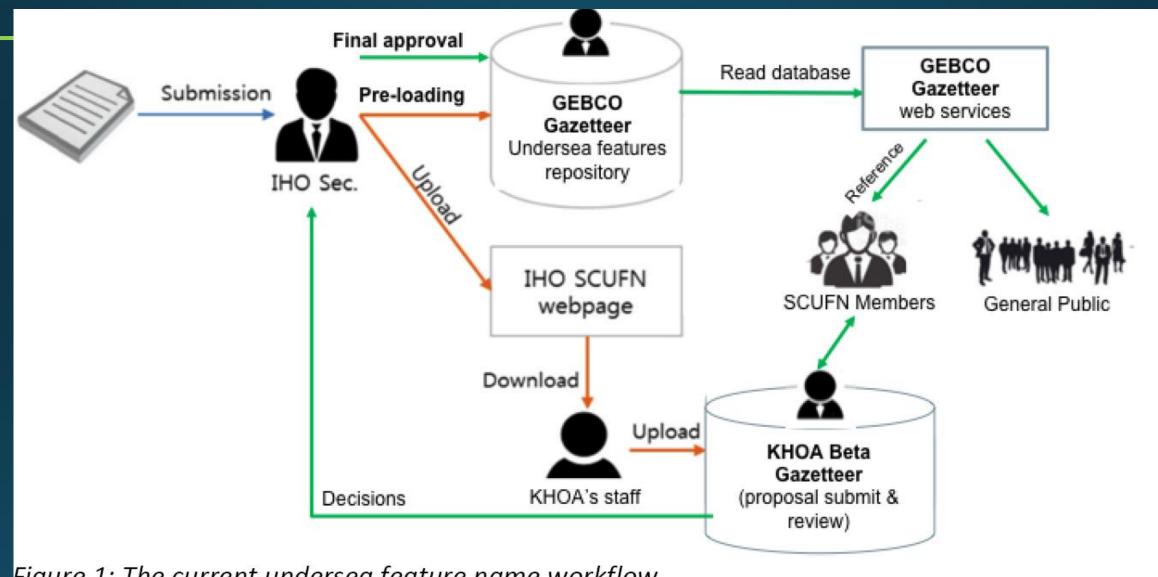
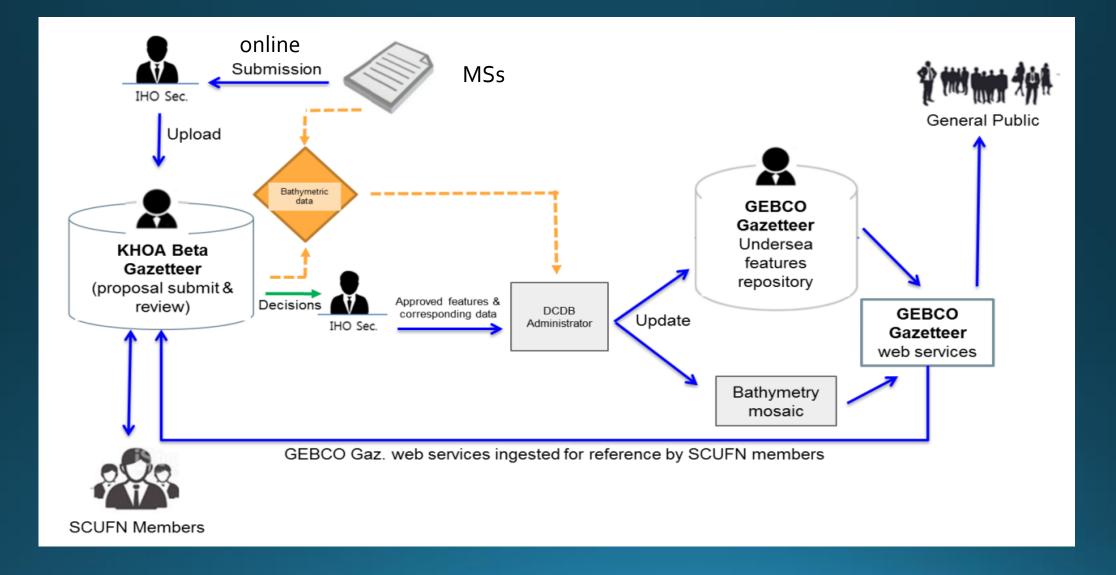


Figure 1: The current undersea feature name workflow.

Future Integrated Beta & GEBCO Gazetteer



II. Improvements (2018 - 2019)

Speedy & stabile service through the web hosting

Server Hosting Web hosting company Running multi websites 合 俞 Internet 合 合 Clients Web host services \odot ✓ Official domain ubuntu

http://scufn.ops-webservices.kr

Dual OS / 1TB Capacity / 10 Mbps

Improvements submit and review (2018 - 2019)

Submit

upgrade the submission interface and tooltip icon service for guidance (B-6)

> Minimized duplicate input

Managed submission of proposals by E-Mail address

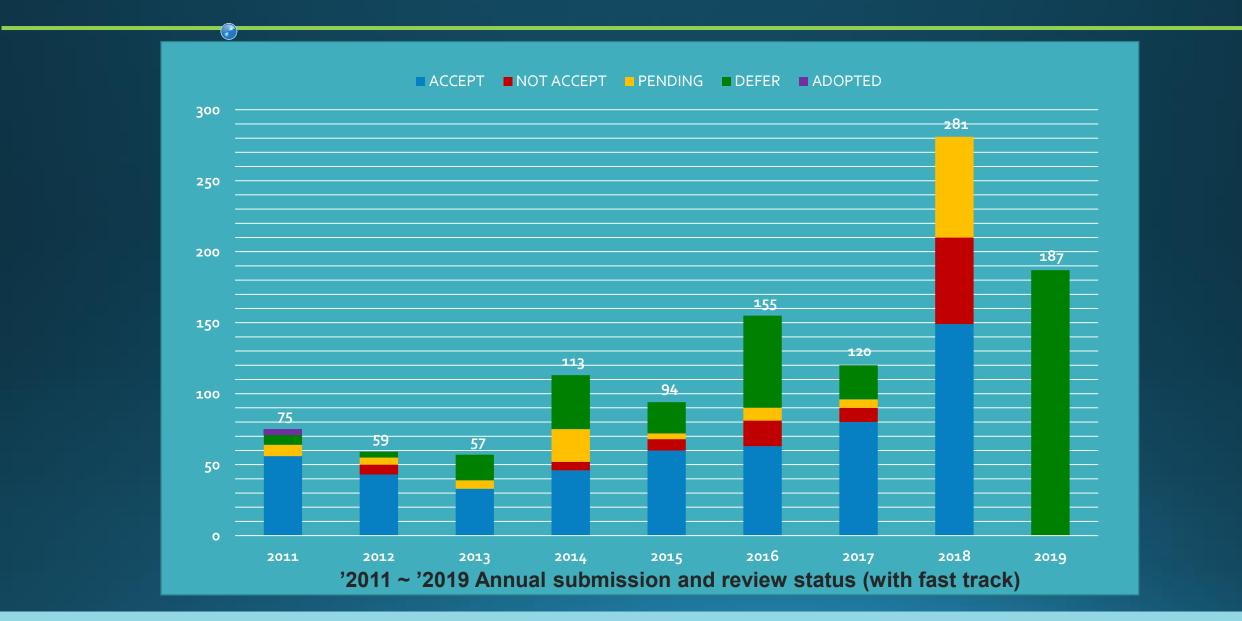
Review

Added review management in each of SCUFN member account

Displayed the status of the review using chart

Improved convenience of review

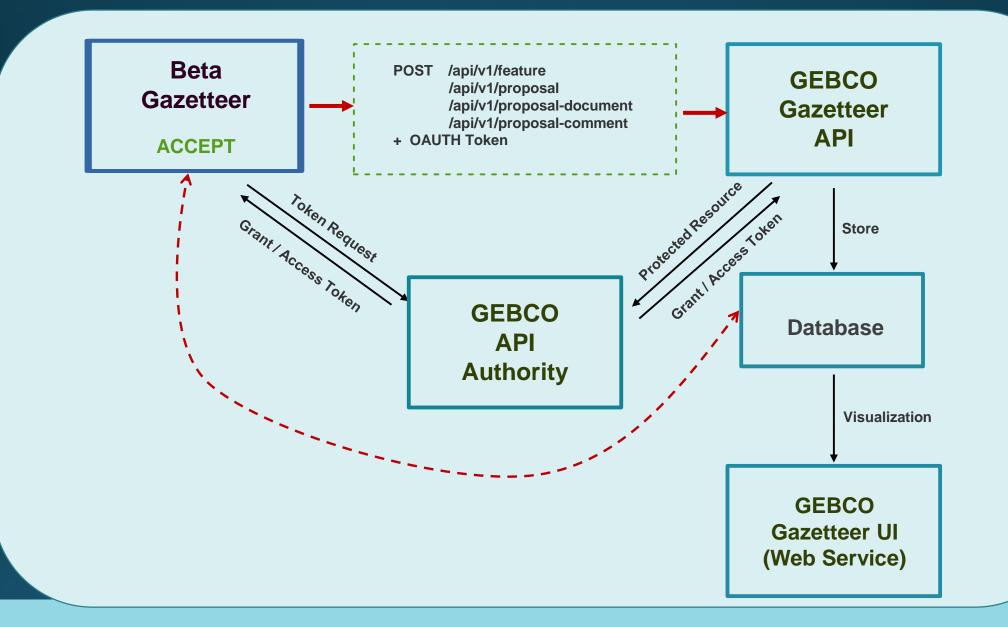
Database updated



III. Current issue

	Beta Gazetteer		arine
	Beta Gazetteer	GEBCO Gazetteer	Marine Region
Strength	Proposals submission & review	Authority service of UFNs	Integrated UFNs DB & Quality control
Cooperation	(KHOA ↔ NOAA) reduce duplicated works, DB	(NOAA ↔ M.R) Sharing data & quality control	(KHOA ↔ M.R) Support for check up pr ocedure (review), Sharing data

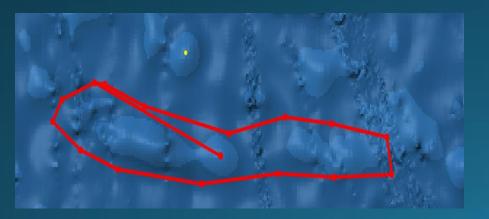
Data Sharing methods: RESTful API



Do not follow the format given in B-6

Incorrect geometry type and coordinates

Point	Line	Polygon	Multiple points	Multiple lines	Multiple polygons*	Combination o geometries*	
		Yes					
Geometry shou	ld be clearly disti	nguished when pro	oviding the coordina	ates below.			
			Lat. (e.g. 63°32.6'N	1)	Long. (e.g. 04	46°21.3'W)	
		10°06.9'N	10°06.9'N (top)		152°12.1'W (top)		
		10°23.5'N	(bottom)	15	2°55.4'W (bottom	ı)	
		10°23.1'N	•		2°51.9'W		
		10°18.2'N	•		2°38.3'W		
		10°12.0'N	•		2°09.3'W		
		10°15.7'N	1	15	1°50.1'W		
		10°14.2'N	1	15	1°34.0'W		
Coordinates:	Post		10°11.2'N		151°15.1'W		
oordinates:		10°02.7'N	1	15	1°13.4'W		
		10°02.1'N		40	1°33.2'W		



→ Consider the maximum and minimum of depth point ??

Geometry that b Point	est defines the fea Line	ture (Yes/No) : Polygon *	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*		
* Lines / polygon	* Lines / polygons / geometries should be clearly distinguished when providing the coordinates below.							
		L	at. (e.g. 63°32.6'N	I)	Long. (e.g. 046			
Coordinates:			24°37 ′ S		85°29 '	W		
coordinates.								
				•				

Point Line Yes Yes	Polygon Multiple points Multiple I	polygons* geometries*		
Geomeany should be cleany disurt	guished when providing the coordinates below.	·····		
	Lat. (e.g. 63°32.6'N)	Long, (e.g. 046°21.3'W)		
	Point (3618 m) 57° 44.0'N	Point (3618 m) 177° 02.7'W		
	Line1 Start (133 m) 58° 44.5'N	Line1 Start (645 m) 175° 48.1'W		
	Line1 Mid1 (623 m) 58° 29.6'N	Line1 Mid1 (623 m) 175° 52.5'W		
	Line1 Mid2 (3352 m) 58° 07.0'N	Line1 Mid2 (3352 m) 176° 38.1'W		
	Line1 End (3589 m) 57° 44.8'N	Line1 End (3589 m) 176° 59.3'W		
	Line2 Start (131 m) 58° 53.1'N	Line2 Start (131 m) 175° 46.4'W		
	Line2 Mid1 (131 m) 58° 52.5'N	Line2 Mid1 (131 m) 175° 52.1'W		
Coordinates:	Line2 Mid2 (131 m) 58 52.5 N	Line2 Mid1 (131 m) 175 32.1 W		
	Line2 Mid3 (2708 m) 58° 09.3'N	Line2 Mid3 (2708 m) 176° 02.9'W		
	Line2 Mid4 (3186 m) 58° 03.5'N	Line2 Mid4 (3186 m) 176° 01.8'W		
	Line2 Mid5 (3410 m) 57° 51.5'N	Line2 Mid5 (3410 m) 176° 19.9'W		
	Line2 Mid6 (3589 m) 57° 44.8'N	Line2 Mid6 (3589 m) 176° 59.3'W		
	Line2 Mid7 (3618 m) 57° 44.0'N	Line2 Mid7 (3618 m) 177° 02.7'W		
	Line2 Mid8 (3725 m) 57° 18.2'N	Line2 Mid8 (3725 m) 178° 24.5'W		
	Line2 End (3743 m) 57° 26.6'N	Line2 End (3743 m) 178° 52.3'W		

Multiple geometry :

Point @	Line 🖉	Polygon <i>e</i> Yes <i>e</i>	Multiple points @	Multiple lines* @	Multiple polygons*∉	Combination of geometries* e
φ			پ	ę	ą	ę
Geometry shoul	ld be clearly disti	nguished when pro	oviding the coordina	ates below. «		
		Lat. (e.g. 63°32.	6'N).₽	Long.	(e.g. 046°21.3'	W) e
	Canvon1	: 19°43.7′N₊	1	14°48.4′E₊		
		19°47.2′N₊	1	14°47.0′E₊		
		19°49.9′N₊	1	14°45.9′E ↔		
		19°51.9′N₊	1	14°45.0′E ↔		
		19°54.6′N≁	1	14°43.9′E ↔		
		19°55.8′N≁	1	14°43.8′E+		
	Canyon2	: 19°45.4′N⊬	1	14°50.6′E≁		
19°50.2′N≁		19°47.9′N⊬	1	14°50.1′E+		
		19°50.2′N⊬	1	14°49.0′E ⊬		
		19°52.8′N≁	1	14°47.8′E≁		
		19°55.0′N₊	1	14°47.7′E≁		
		19°57.3′N≁	1	14°46.7′E≁		
	Canyon3	: 19°44.3′N≁	1125	14°54.9′E+		
		19°47.4′N≁	1995	.14°53.5′E		
		19°50.2′N≁		.14°52.8′E≁		
		19°52.2′N≁		14°52.6′E ↔		
		19°53.6′N≁		.14°52.2′E ↔		
		19°55.2′N≁	1.2	14°51.2′E ↔		
		19°55.7′N≁		14°50.9′E ↔		
oordinates: @	Canyon4	: 19°45.6′N⊬		14°58.9′E ↔		
		19°47.9′N≁		14°57.8′E ↔		
		19°50.5′N ⊬		14°56.8′E ↔		
		19°54.6′N₊		14°55.8′E↓		
		19°56.9′N≁		.14°55.8′E≁		

Geometry that b Point	Line		Multiple points	Multiple lines*	Multiple	Combination of
Point	Line	Polygon	multiple points	Multiple lines	polygons*	combination of geometries*
		-†	Yes		polygono	geometrico
* Geometry shou	ld be clearly dis	linguished when	providing the coordina	ates below.		
	i					
Coordinate:		(A)	67°16.1'S		179°03.	1'W

Point	Line	Polygon	Multiple points	Multiple lines*	Multiple polygons*	Combination of geometries*	
No	No	No	Yes Yes		Yes	Yes	
* Geometry sho	uld be clearly distin	nguished when pr	maing the coordine	nes below.			
		Lat	t. (e.g. 19° 48.6783	S)	Long. (e.g. 39°	08.1417' W)	
				19° 31.9417' S		39° 02.8633' W	
		19° 44.2850' S		39° 07.67	39° 07.6750' W		
		19° 56.9800' S		39° 08.74	33' W		
			19° 34.2800' S		39° 01.2108' W		
Coordinates:		19° 37.2867' S		39° 03.2817' W 39° 04.8188' W			
		19° 41.6967' S					
			19° 48.6783' S		39° 08.14	17' W	
			19° 51,8867' S		39° 08.15	83' W	
			20° 02.1467' S		39° 06.77		
			20° 04.0233' S		39° 01.31		

IV. Future Plan (2019 ~ 2021)

Supporting various formats of UFN's information

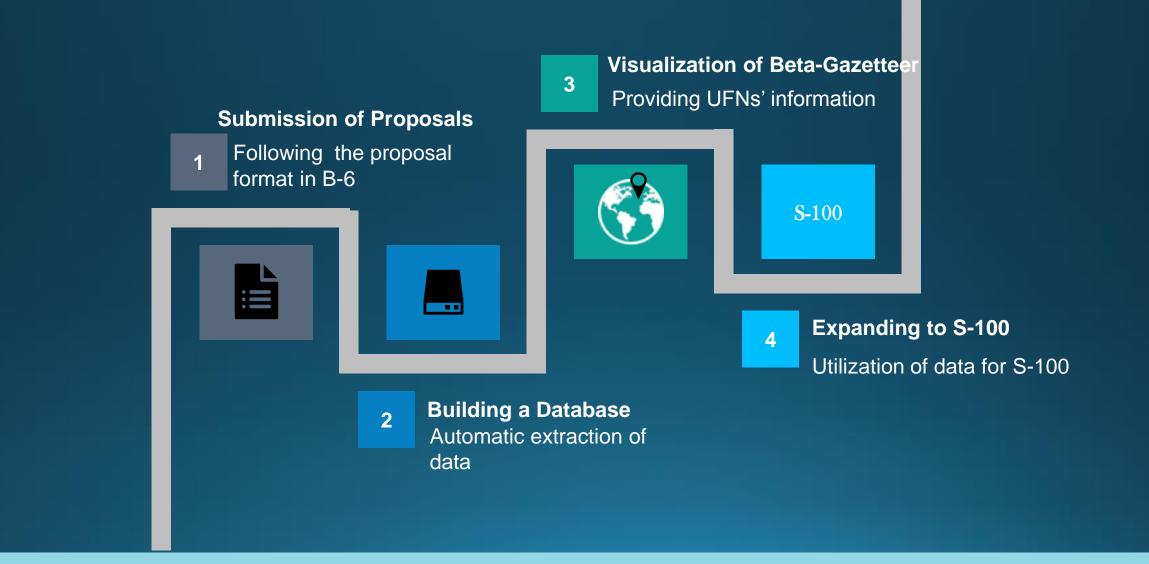
Improvement search functions such as registration, and more detail search options

Expanding the database structure and providing format for S-100

Improvements reflecting feedback by expert groups, end users.

Dual system operation in case of system interruption and failure (GEBCO Gazetteer, Beta Gazetteer)





 MSs will submit the UFN proposal using SCUFN integration web site from SCUFN-33(2020).
 submission pre-test, response the manual etc.

2. The KHOA will discuss with DCDC how to provide UFN survey data and provide suggestions.

3. KHOA will keep on updating the Beta gazetteer.

Thank you