

## **Discussion points**

### **ALOS-2 BOS / ScanSAR**

- Comments on current reduction proposal

### **ALOS-4**

Considerations for ALOS-4 BOS for wetlands

## Current ScanSAR obs plan – all areas 9 obs/yr

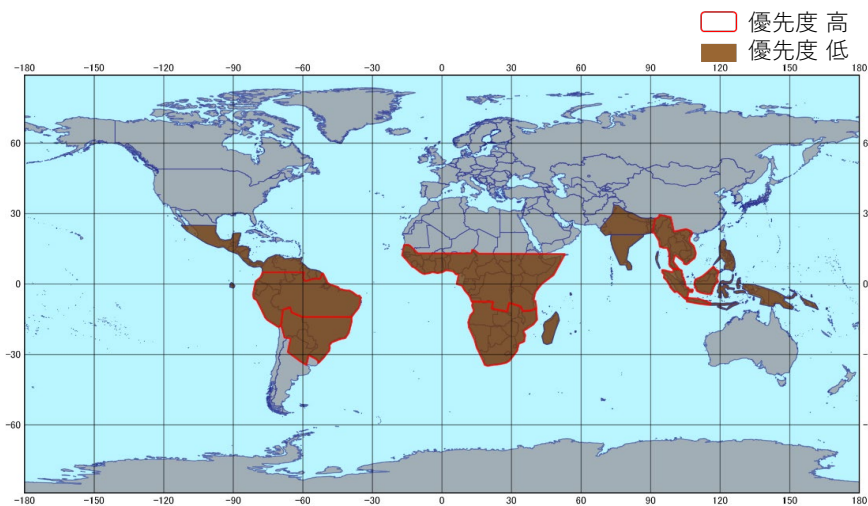
### (参考) 現在の湿地・伐採要求

湿地・伐採モニタリング(7年目:164回帰以降)

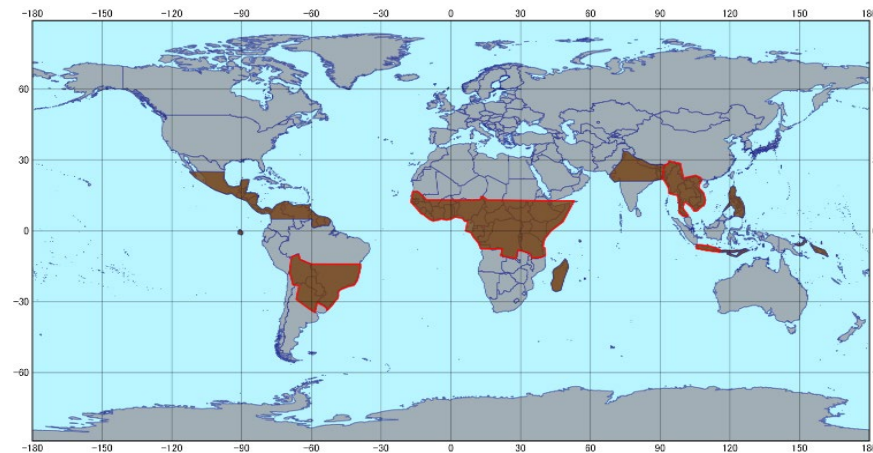
観測頻度: 降交軌道 9回/年

分解能: 100 m (オフナディア角  $26.2^\circ$  - $41.8^\circ$ )

観測モード: 広域観測 350km (HH+HV/14MHz)



### ■ 湿地・伐採1



### ■ 湿地・伐採2

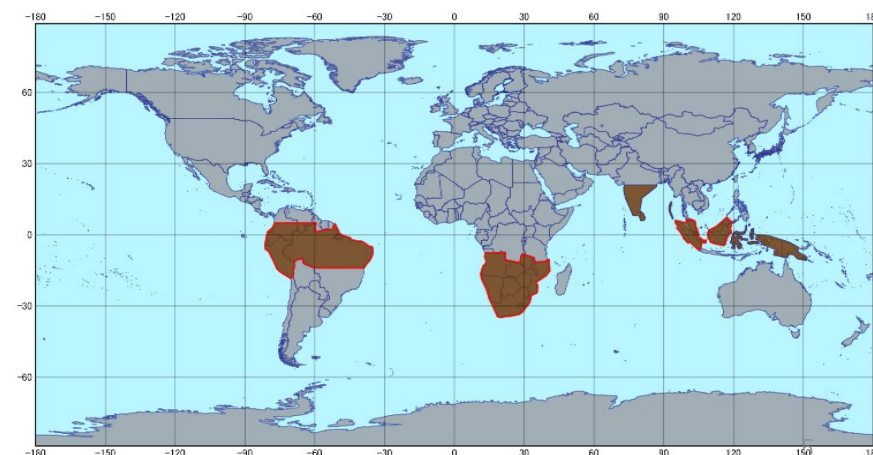


図5：現在の湿地・伐採エリア

## Proposed update from April 2024

### 湿地・伐採ポリゴンの修正案

現在の湿地・伐採ポリゴンと重ね合わせた結果は図2の通り。

- 年9回観測
- 年5回観測
- 削除可能
- 現在の湿地・伐採ポリゴン

Orange – 9 obs/yr

Yellow – 5 obs/yr

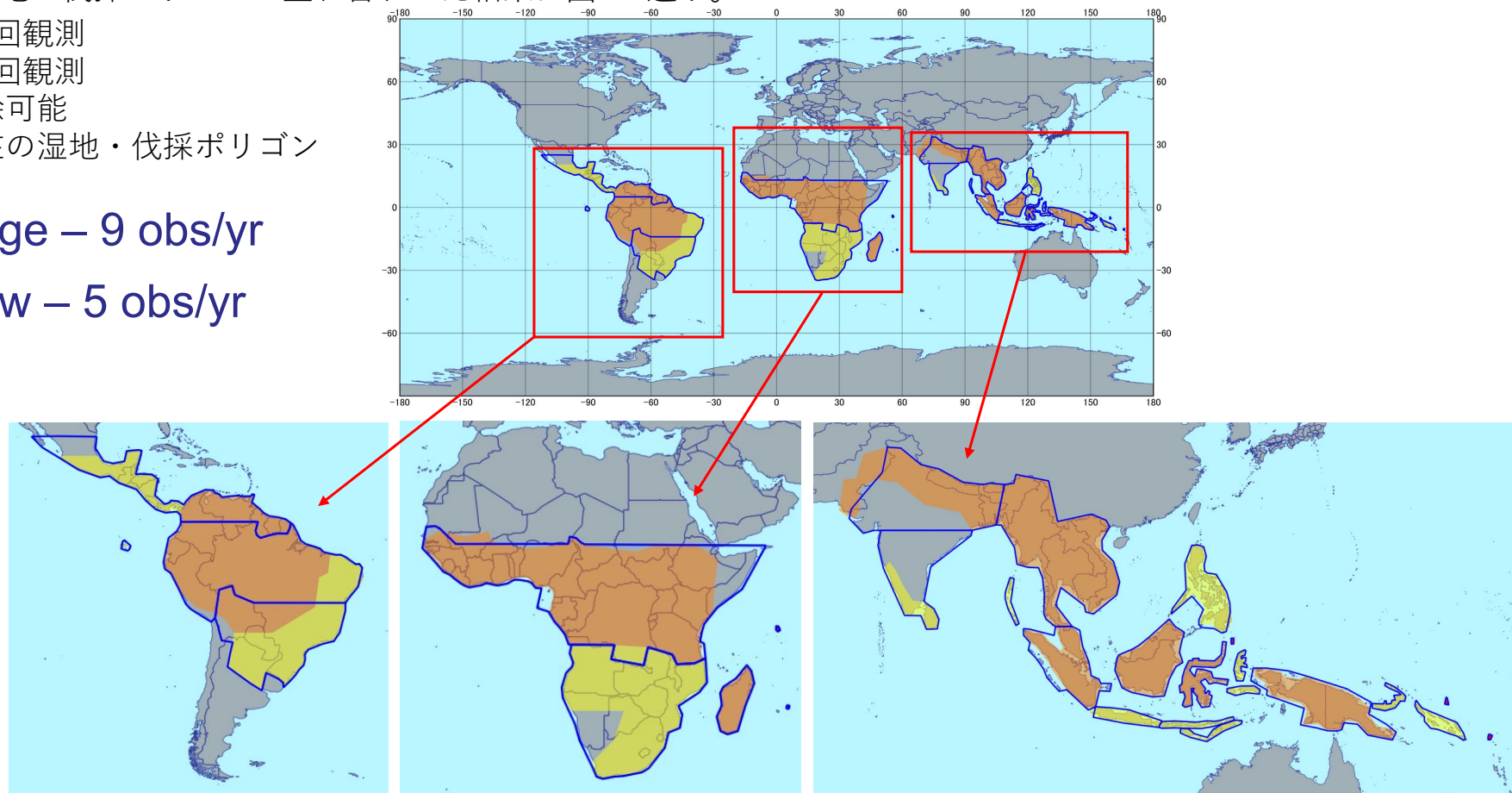


図2：湿地・伐採ポリゴンの修正案（重ね合わせた結果）

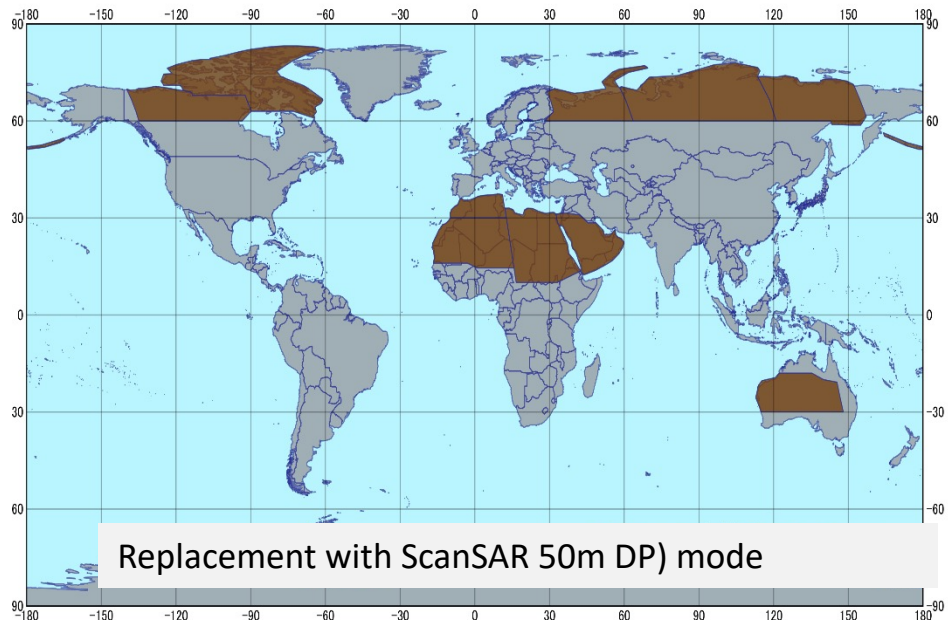
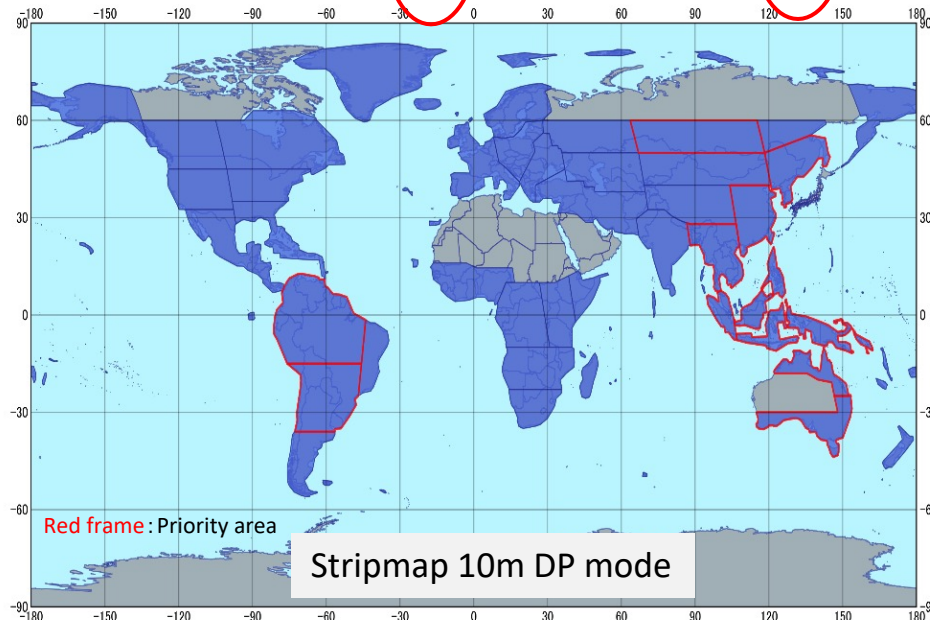
## BOS: FBD stripmap 10m

■ 10th year (plan)

2009: Coverage reduced to once per year

Further reduction: Replace certain areas with ScanSAR

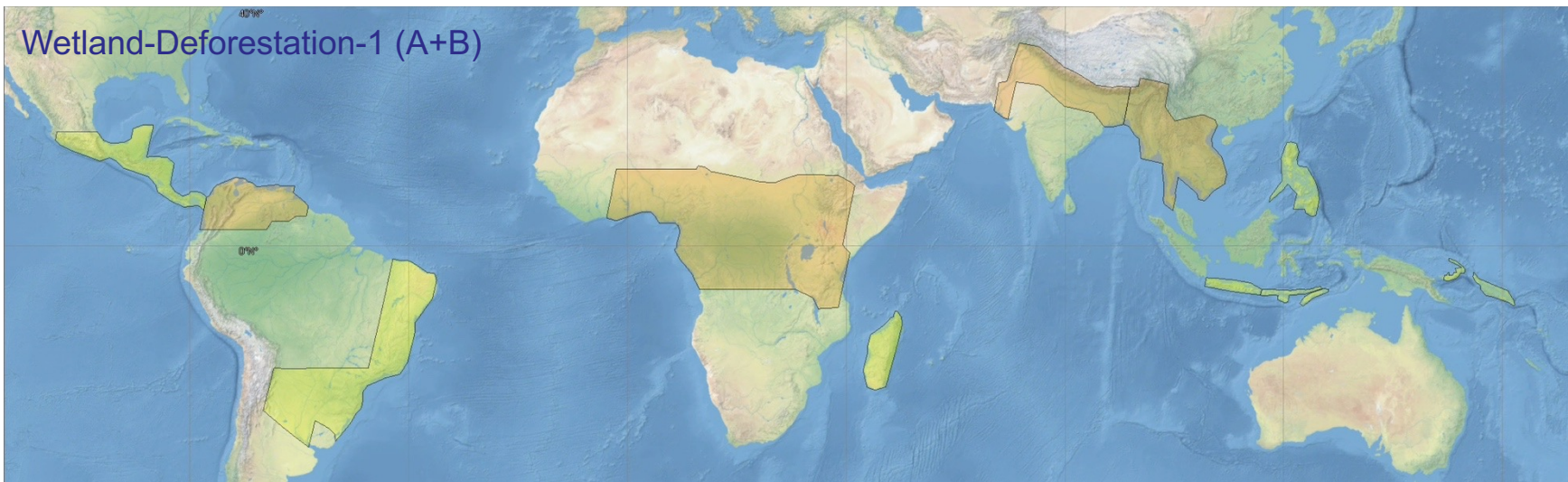
10th Year		2023																				2024									
Cycle		236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261				
Year		2023																				2024									
Month/Day		07/24	08/07	08/21	09/04	09/18	10/02	10/16	10/30	11/13	11/27	12/11	12/25	01/08	01/22	02/05	02/19	03/04	03/18	04/01	04/15	04/29	05/13	05/27	06/10	06/24	07/08				
Descending			Wetland Deforest 2	Wetland Deforest 1	Crustal 1	Wetland Deforest 2	Crustal 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1	Wetland Deforest 2	Wetland Deforest 1			
			W2 (2)R	W2 (2)R	W2 (2)R	W2(2)R	W2(2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R	W2 (2)R	W2 (2)R			
Ascending		World E(10m)				Crustal ScanSAR Replace 1	Polar	World F(10m)				ScanSAR Replace 2	World A(10m)			North Polar	South Polar	World B(10m)			World C(10m)			World C(10m)		World D(10m)					
		F2 (6)R	F2 (7)R	F2 (5)R	W2(2)R	W2(2)R	F2 (6)R	F2 (7)R	F2 (5)R			W2 (2)R	F2 (6)R	F2 (7)R	F2 (5)R		W2(2)R		F2 (6)R	F2 (7)R	F2 (5)R	F2 (6)R	F2 (7)R		F2 (5)R		F2 (6)R	F2 (7)R	F2 (5)R		



## Wetland-Deforestation-1 (A+B)

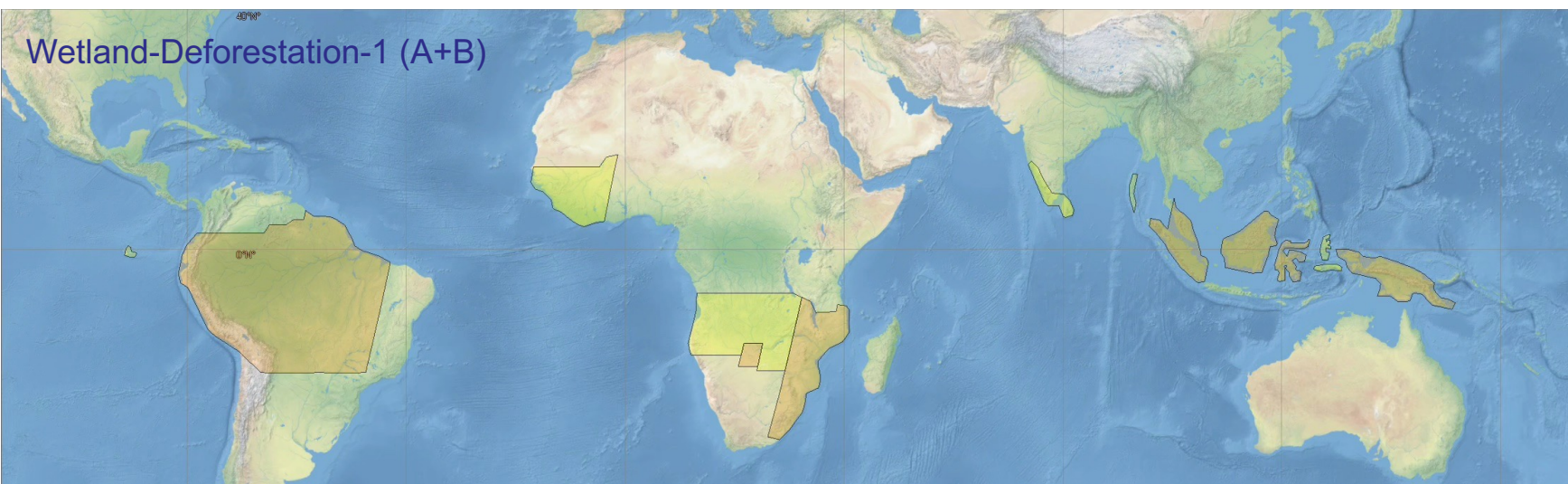
A (orange):  
9 obs/year

B (yellow):  
5 obs/year

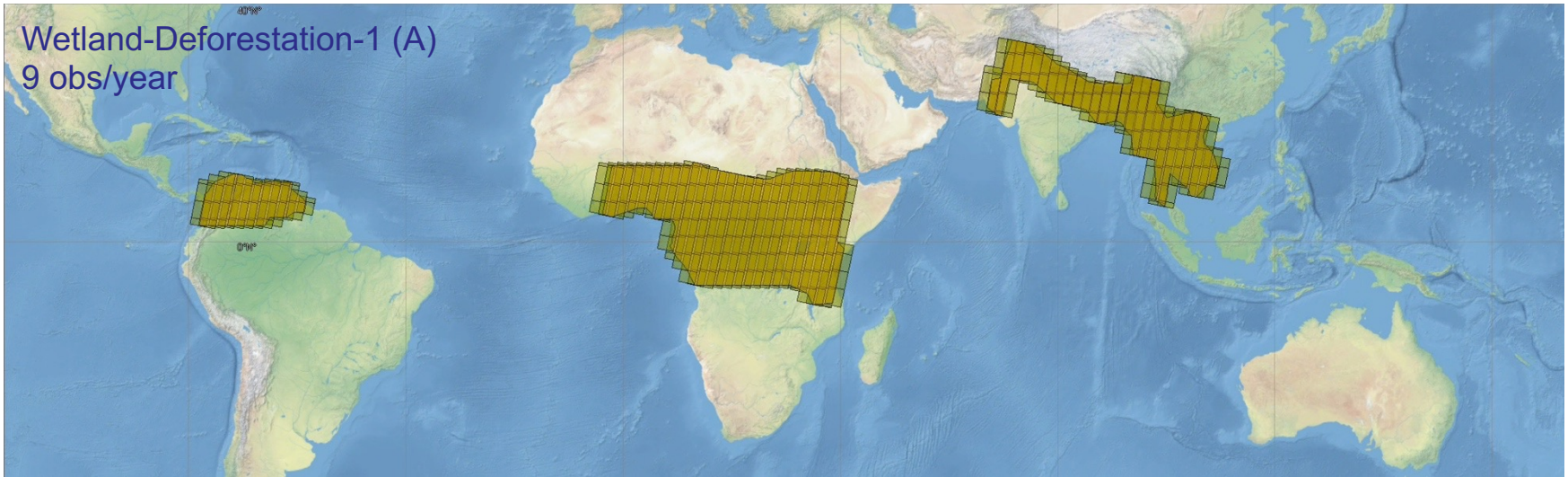


PALSAR-2 ScanSAR (W2) Descending	JFY 2024												JFY 2025												
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Wetlands-Deforest-1A																									
Wetlands-Deforest-1B																									
Wetlands-Deforest-2A																									
Wetlands-Deforest-2B																									

## Wetland-Deforestation-1 (A+B)

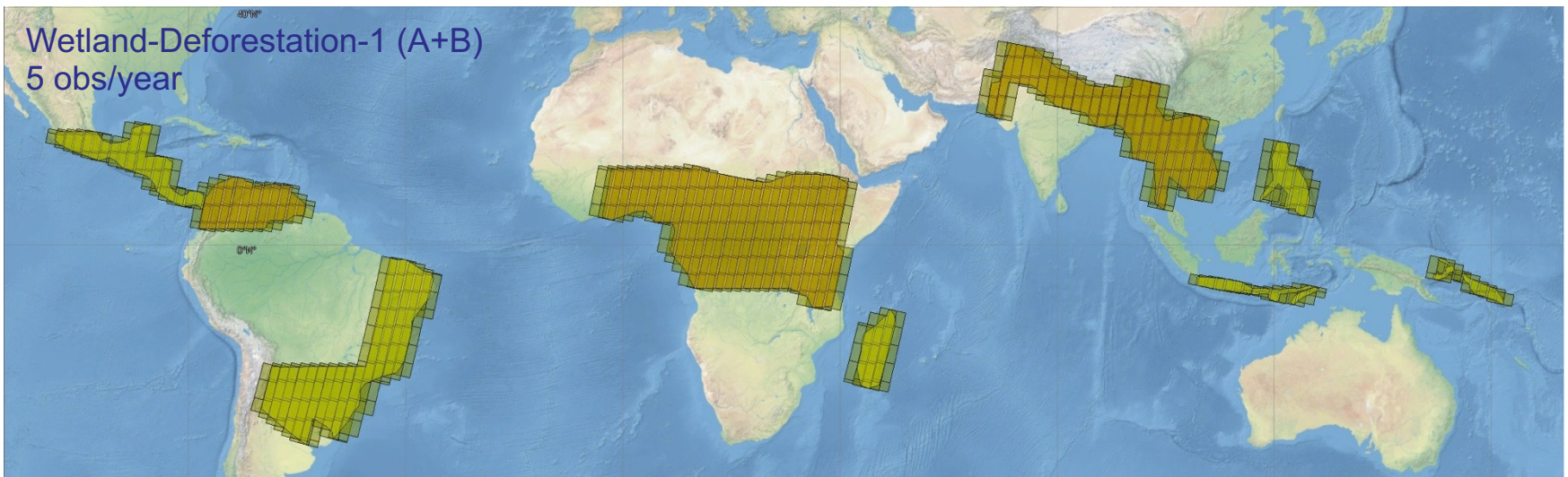


Wetland-Deforestation-1 (A)  
9 obs/year

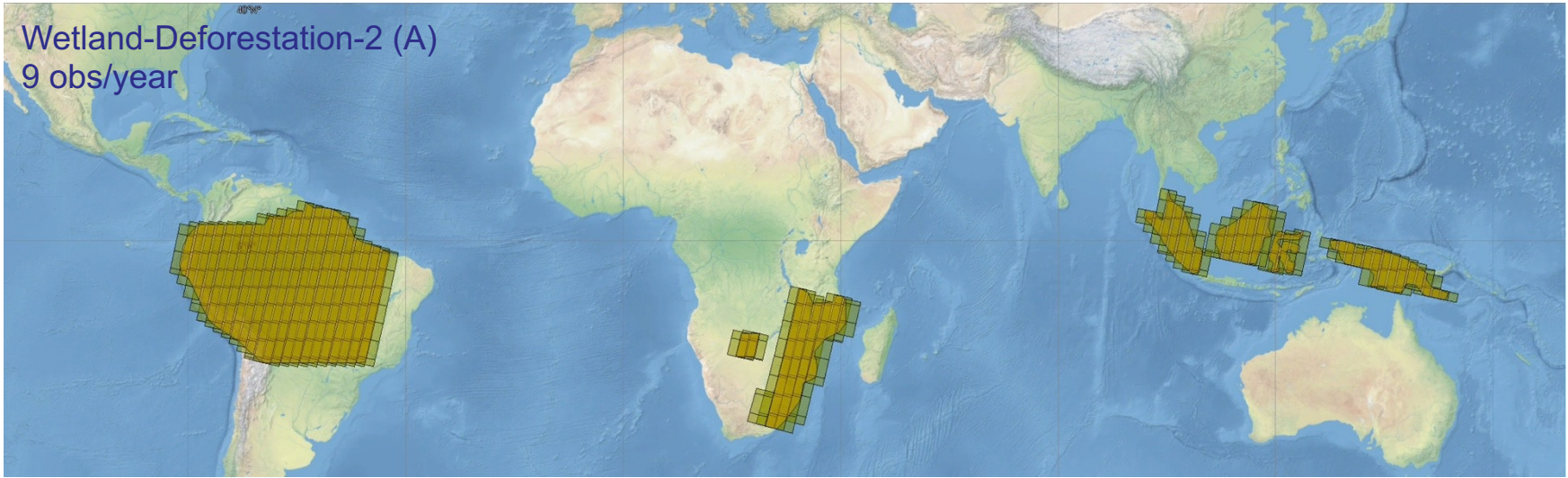


PALSAR-2 ScanSAR (W2) Descending	JFY 2024																		JFY 2025											
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar						
Wetlands-Deforest-1A																														
Wetlands-Deforest-1B																														

Wetland-Deforestation-1 (A+B)  
5 obs/year

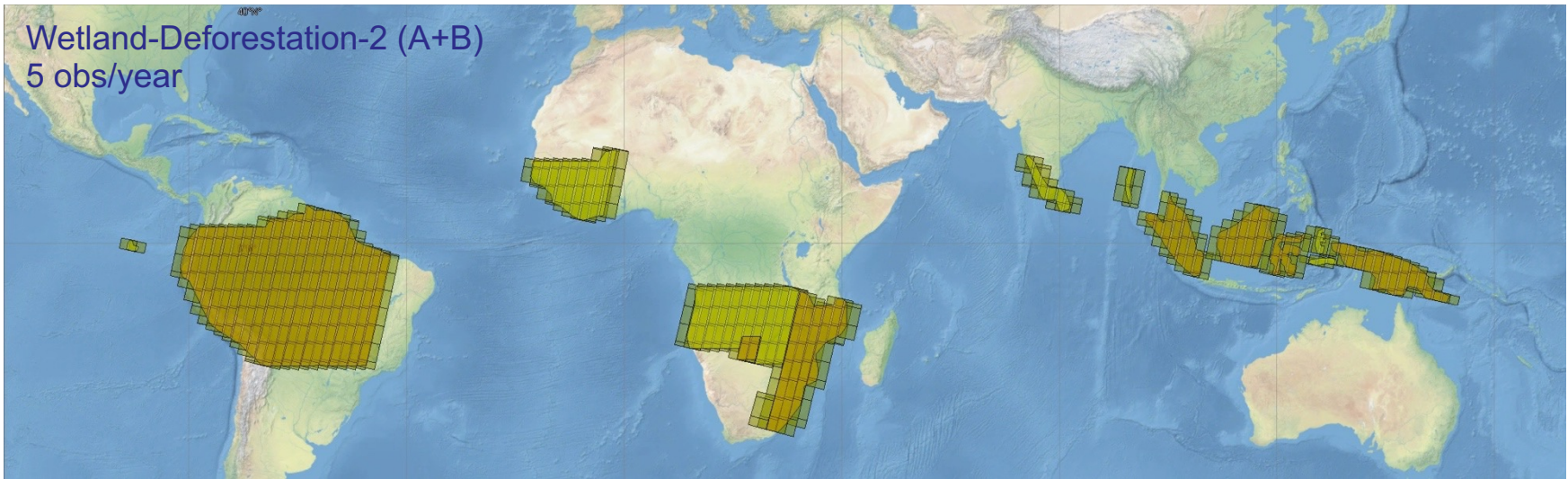


Wetland-Deforestation-2 (A)  
9 obs/year



PALSAR-2 ScanSAR (W2) Descending	JFY 2024												JFY 2025																																								
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar																													
	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	
Wetlands-Deforest-2A																																																					
Wetlands-Deforest-2B																																																					

Wetland-Deforestation-2 (A+B)  
5 obs/year



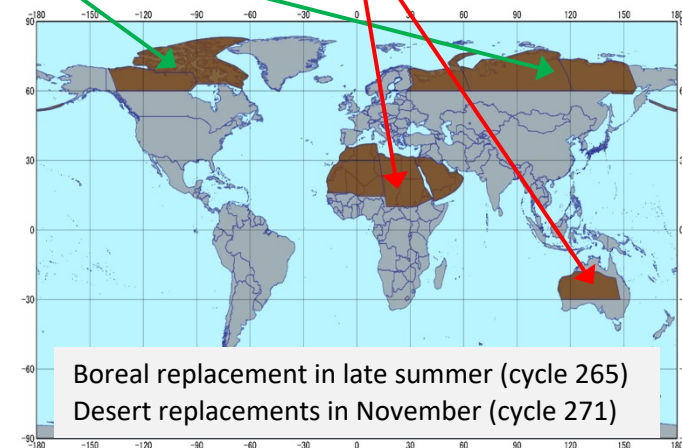
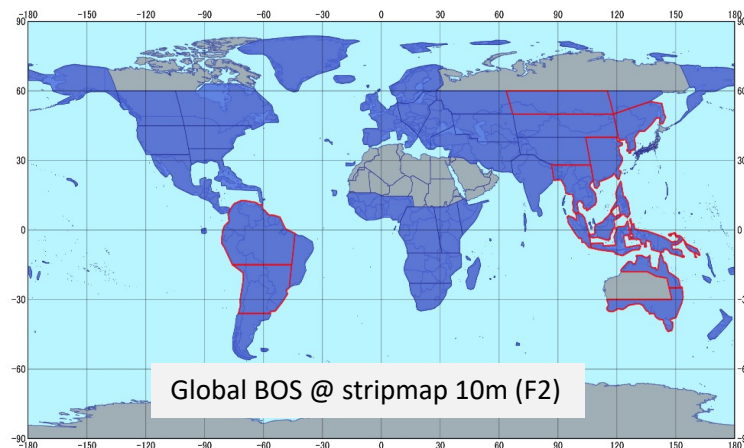
## Global BOS:

### Replacement of Stripmap (F2) with ScanSAR (W2)

Note for 2024: Boreal areas (Siberia & Canada) W2 acquisitions in September (cycle 265)

Desert areas (Africa, Arabia & Australia): November/December (cycle 271) ok

Cycle	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	
Year	2024													2025													
Month/Day	04/01	04/15	04/29	05/13	05/27	06/10	06/24	07/08	07/22	08/05	08/19	09/02	09/16	09/30	10/14	10/28	11/11	11/25	12/09	12/23	01/06	01/20	02/03	02/17	03/03	03/17	
Descending		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1	Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1	Crustal 1	Wetland Deforest 2	Crustal 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1		Wetland Deforest 2	Wetland Deforest 1
		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R	W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R	W2 (2)R	W2(2)R	W2(2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R		W2 (2)R	W2 (2)R
Ascending		World C(10m)		World C(10m)		World D(10m)			World E(10m)			Crustal ScanSAR Replace 1	Polar	World F(10m)			ScanSAR Replace 2	World A(10m)			North Polar	South Polar	World B(10m)				
	F2 (6)R	F2 (7)R		F2 (5)R		F2 (6)R	F2 (7)R	F2 (5)R	F2 (6)R	F2 (7)R	F2 (5)R	W2(2)R	W2(2)R	F2 (6)R	F2 (7)R	F2 (5)R	W2 (2)R	F2 (6)R	F2 (7)R	F2 (5)R	W2(2)R			F2 (6)R	F2 (7)R	F2 (5)R	
												W2(2)R	W2(2)L										W2(2)L				

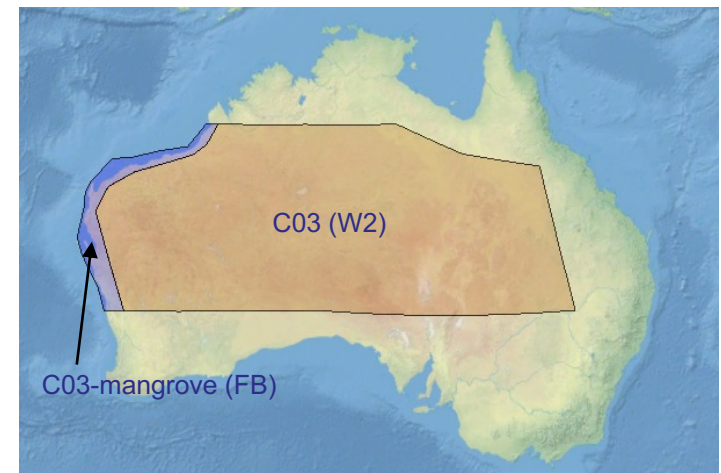
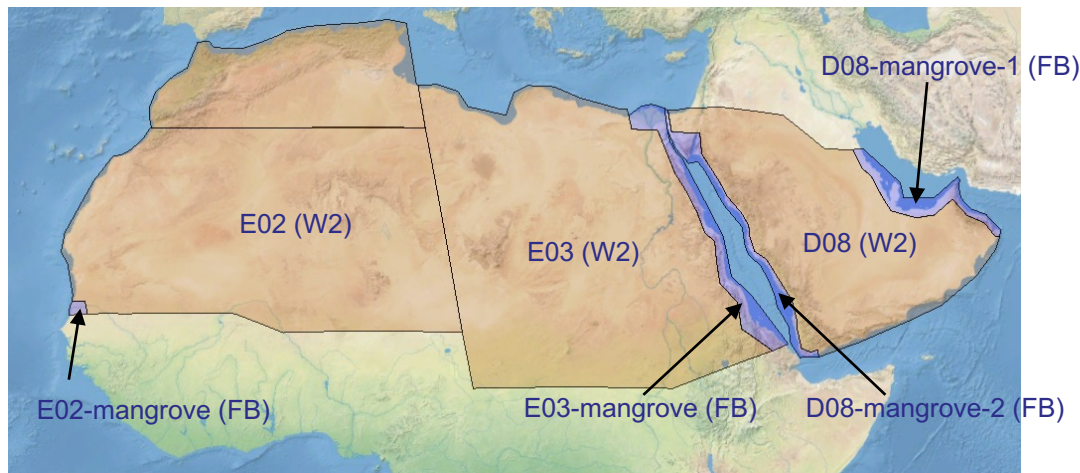




**Global BOS:**  
**Replacement of Stripmap (F2) with ScanSAR (W2)**  
**Desert areas with mangroves**

Keep annual stripmap F2 for coastal areas with mangroves.

Can be acquired during any observation cycle



## KC#27 input to ALOS-2 BOS

### Wetland & Rapid Deforestation

- Reduction of temporal coverage (9 → 5 cycles/year) of certain polygons generally accepted
- Brazil: Ensure Cerrado areas are included in 9 cycle coverage
- JJ-FAST: Ensure remaining JICA target countries (Brazil, Colombia, Ecuador, Peru, Costa Rica, Ghana, Nigeria, Cameroon, Gabon, DRC, Kenya, Tanzania, Mozambique) are included in 9-cycle coverage
- All polygons have been refined to reduce wasteful observation passes
- Polygons generally scheduled during their original cycles (as discussed with Takeo & Fumi-san)

### Replacement of Stripmap (F2) with ScanSAR (W2)

- Boreal polygons (Siberia, Canada): Ensure scheduling in late summer (cycle 265, Sept 2024)
- Desert polygons (Africa, Arabia, Australia): ok to schedule in November (cycle 271)
- Desert polygons: Keep annual observations in stripmap 10m (F2) of coastal areas with mangroves. Can be scheduled during any observation cycle as long as annual observations are maintained.