

## 2026 MATE World Championship – Venue + Location Key

### Abbreviation Location - Address

[MI \(link\)](#) [Fisheries and Marine Institute of Memorial University - 155 Ridge Road, St. John's, NL A1C 5R3 \(link\)](#)

#### Scheduled Events

Competition check-in (Teams & Judges)  
Safety inspections  
Omniscan integration & test tank  
Marketing displays  
Tours & ROV simulator (Sign-Up Genius link TBD)  
Inspiration for innovation exhibit hall  
Flume tank product demonstration  
Flume tank team workstations & repair station  
Engineering Presentations  
Spectator viewing area - Flume tank  
Judges & volunteer hospitality  
ROV buoyancy testing - teams can test their vehicles ONLY AFTER PASSING SAFETY INSPECTION!  
**Parking permits not required at the Marine Institute.**

[JAG Hotel \(link\)](#) [JAG Hotel - Blues Tower - Soundhouse - 115 George St W, St. John's, NL A1C 0B7, Canada \(link\)](#)

#### Scheduled Events

Opening ceremonies  
Friday night social networking mixer  
Awards ceremonies

**Parking is located in a downtown city parking area. Please check for posted meters and time limits. Visitors are responsible for all parking fees and any tickets issued.**

[Eng. Building \(link\)](#) [Engineering and Applied Science Building \(Memorial University\) - S.J. Carew Building, 4 Kerwin Pl Unit 2, St. John's, NL A1B 3V6, Canada \(Eng. Building\) \(link\)](#)

#### Scheduled Events

Ice and wave tank team workstations & repair station  
Spectator viewing area - Ice & OEB wave tank  
ROV buoyancy testing - teams can test their vehicles ONLY AFTER PASSING SAFETY INSPECTION!  
Float Testing - teams can test their float ONLY AFTER PASSING SAFETY INSPECTION!  
**[PARKING INSTRUCTIONS: Engineering Building & NRC: Park in lot 22. If lot 22 is full you may use lot 19 as an overflow option. Parking in any other lot may result in a parking ticket. \(link\)](#)**

[NRC \(link\)](#) [National Research Council - 1 Arctic Ave, St. John's, NL A1B 3T5, Canada](#)

#### Scheduled Events

Ice tank product demonstration  
Ocean Engineering Basin (OEB) Wave tank product demonstration  
Judges & volunteer hospitality - MATE judges, volunteers, and staff  
**[PARKING INSTRUCTIONS: Engineering Building & NRC: Park in lot 22. If lot 22 is full you may use lot 19 as an overflow option. Parking in any other lot may result in a parking ticket. \(link\)](#)**

[The Launch \(link\)](#) [Marine Institute of Memorial University/The Launch - Northside Rd, Holyrood, NL A0A 1V0, Canada \(link\)](#)

#### Scheduled Events

Bonus Mission  
**No On-Site Parking:** Due to extremely limited parking at The Launch, attendees are kindly asked to use the shuttle service from designated stop locations.  
**⚠ Important:** Please bring a refillable water bottle and your own food. There are no food services or places to eat available on-site.

## 2026 MATE World Championship – SCHEDULE of EVENTS

[Visit the MATE World Championship LIVESTREAM at https://www.twitch.tv/mateinspires1](https://www.twitch.tv/mateinspires1)

### Tuesday, June 23rd, 2026

<u>Time</u>	<u>Venue</u>	<u>Location</u>	<u>Activity</u>
12:00 - 1:00 PM	Fisheries and Marine Institute of Memorial University (MI) - 155 Ridge Road, St. John's	Floor 1 - Room C1206 Student Lounge	Lunch provided in the Judges & Volunteers Hospitality Lounge (judges & volunteers only)
2:00 -5:00 PM	MI	Floor 2 - Gym Floor 2 - Gym Floor 1 - W1002 Floor 1, 2, and 3 - Hallways Floor 2 - Atrium Floor 1 - Conference Center	<a href="#">Competition check-in</a> Safety inspections Omniscan integration & test tank Set up marketing displays Marine Institute of Memorial University Tours - Including Simulator Time (Sign-Up Genius Link TBD) Volunteer check-in

## 2026 MATE World Championship – SCHEDULE of EVENTS

[Visit the MATE World Championship LIVESTREAM at https://www.twitch.tv/mateinspires1](https://www.twitch.tv/mateinspires1)

### Wednesday, June 24th, 2026

<u>Time</u>	<u>Venue</u>	<u>Location</u>	<u>Activity</u>
9:00 AM - 5:00 PM	Fisheries and Marine Institute of Memorial University (MI) - 155 Ridge Road, St. John's	Floor 2 - Gym Floor 2 - Gym Floor 1 - Room W1002 Floor 1, 2, and 3 - Hallways Floor 2 - Atrium Floor 1 - Conference Center	<a href="#">Competition check-in</a> Safety inspections Omniscan integration & test tank Set up marketing displays Marine Institute of Memorial University Tours - Including Simulator Time (Sign-Up Genius Link TBD) Volunteer check-in
12:00 - 1:00 PM	MI	Floor 1 - Room C1206 Student Lounge	Lunch provided in the Judges & Volunteers Hospitality Lounge (judges & volunteers only)
6:30 - 9:00 PM	Quidi Vidi Brewery - 35 Barrows Rd, St. John's	Oceanside Lower Deck Event Space	Judge/Volunteer/VIP Soiree

## 2026 MATE World Championship – SCHEDULE of EVENTS

Visit the MATE World Championship LIVESTREAM at <https://www.twitch.tv/mateinspires1>

### Thursday, June 25th, 2026

Time	Venue	Location	Activity
MATE Information will be located Floor 2 - Atrium.			
9:00 - 10:00 AM	JAG Hotel - Blues Tower - 115 George St W, St. John's	Soundhouse Studio A-C	Opening ceremonies
10:15 - 11:30 AM	JAG Hotel - Blues Tower	Soundhouse Studio A	Team briefing and product demonstration Q&A Teams are invited to send 1 team member and 1 mentor to the [LOCATION] while the other team members set up workstations.
	JAG Hotel - Blues Tower	Soundhouse Lobby	Photo-Ops! Teams with floats send 1 team member + float to the [LOCATION] for a photo with a GO-BGC float! Teams that received Schmidt Ocean Coalition travel stipends meet at the [LOCATION] for a photo!
11:00 AM - 12:00 PM	Fisheries and Marine Institute of Memorial University (MI) - 155 Ridge Road, St. John's	Floor 1, 2, and 3 - Hallways	Set-up marketing displays by 12:00 PM
11:00 AM - 6:30 PM	MI	Floor 2 - Gym	Flume Tank team workstations
	Engineering and Applied Science Building (Eng. Building) - S.J. Carew Building, 4 Kerwin Pl Unit 2, St. John's	Floor 2 - Gym	Repair station
		Floor 1 - Rooms 1000-1004	Ice & OEB Wave Tank team workstations
		Floor 1 - Rooms 1000-1004	Repair station
11:30 AM - 1:00 PM	MI	Floor 1 - Room C1206 Student Lounge	Lunch provided in the Judges & Volunteers Hospitality Lounge (judges & volunteers only)
	National Research Council (NRC) - 1 Arctic Ave, St. John's	Floor 2 - Outside Atlantic Room	Lunch provided in the Judges & Volunteers Hospitality Lounge (judges & volunteers only)
11:30 AM - 5:00 PM	MI	Floor 2 - Atrium	Inspiration for Innovation exhibits set up and opening
		TBD	Fine Designs MATE Merchandise Sales - Come get your SWAG!
		Floor 2 - Atrium	Marine Institute of Memorial University Tours - Including Simulator Time (Sign-Up Genius Link TBD)
1:00 PM - 2:00 PM	MI	TBD	Engineering presentation judges' briefing
1:00 - 2:30 PM	MI	Flume Tank	Product demonstration judges' briefing - Flume Tank
	NRC	Wave Tank	Product demonstration judges' briefing - Wave Tank / Ice Tank
1:00 - 6:15 PM	Eng. Building	Floor 1 - Room EN1035	ROV buoyancy testing - teams can test their vehicles ONLY AFTER PASSING SAFETY INSPECTION
	MI	Floor 1 - Room EN1035	Float testing - teams can test their float ONLY AFTER PASSING SAFETY INSPECTION
	MI	Floor 1 - Room E1300	ROV buoyancy testing - teams can test their vehicles ONLY AFTER PASSING SAFETY INSPECTION
2:30 - 5:30 PM	MI	See Engineering Presentation Schedule	RANGER, PIONEER and EXPLORER Engineering Presentations
2:30 PM			
3:15 PM			
4:00 PM			
4:45 PM			
2:30 - 7:00 PM	MI	Flume Tank	RANGER, PIONEER and EXPLORER Product Demonstrations
	NRC	Ice and OEB Wave Tank	
2:30 PM			
3:00 PM			
3:30 PM			
4:00 PM			
4:30 PM			
5:00 PM			
5:30 PM			
6:00 PM			
6:30 PM			
7:00 PM	MI, NRC, and Eng. Building		End of scheduled events
7:00 PM	MI and Eng. Building		Teams clear out of workstations

Room W3004	Room W3029/31	Room W3033/35	Room W3005	Room E3327	Room E1320	Room E2313	Room C3206
EX01	EX02	EX03	PN01	RN01	RN02	RN03	RN04
EX04	EX05	EX06	PN02	RN05	RN06	RN07	RN08
EX07	EX08	EX09	PN03	RN09	RN10	RN11	RN12
EX10	EX11	EX12	PN04	RN13	RN14	RN15	RN16

Flume Tank				OEB Wave Tank				Ice Tank			
STATION #1	STATION #2	STATION #3	STATION #4	STATION #1	STATION #2	STATION #3	STATION #4	STATION #1	STATION #2	STATION #3	STATION #4
EX07	EX08	RN09	RN10	EX13	EX20	RN17	RN22	EX25	PN08	PN09	RN34
PN03	EX09	RN11	RN12	EX14	EX21	RN18	RN23	EX26	PN10	PN11	RN35
PN04	EX10	RN13	RN14	EX15	EX22	RN19	-	EX27	EX32	RN29	RN36
EX01	EX02	RN01	RN02	EX16	EX23	RN20	RN25	EX28	EX33	RN30	RN37
EX03	PN01	RN03	RN04	EX17	EX24	RN21	RN26	EX29	EX34	RN31	RN38
EX04	PN02	RN05	RN06	EX18	PN07	PN05	RN27	EX30	EX36	RN32	RN39
EX05	EX06	RN07	RN08	EX19	-	PN06	RN28	EX31	EX35	RN33	RN40
EX11	EX12	RN15	RN16	Ovrrun time				Ovrrun time			
Ovrrun time											

**2026 MATE World Championship – SCHEDULE of EVENTS**

Visit the MATE World Championship LIVESTREAM at <https://www.twitch.tv/mateinspires1>

**Friday, June 26th, 2026**

Time	Venue	Location	Activity
MATE Information will be located Floor 2 - Atrium.			
7:00 AM - 6:00 PM		Fisheries and Marine Institute of Memorial University (MI) - 155 Ridge Road, St. John's	Floor 2 - Gym Flume Tank team workstations Repair station
		Engineering and Applied Science Building (Eng. Building) - S.J. Carew Building, 4 Kerwin Pl Unit 2, St. John's	Floor 1 - Rooms 1000-1004 Ice & OEB Wave Tank team workstations
			Floor 1 - Rooms 1000-1004 Repair station
8:00 AM - 9:00 AM	MI	Floor 1 - Room C1206 Student Lounge	Marketing display judges' briefing
8:00 AM - 5:00 PM	Eng. Building	Floor 1 - Room EN1035	ROV buoyancy testing - teams can test their vehicles ONLY AFTER PASSING SAFETY INSPECTION
	MI	Floor 1 - Room EN1035	Float testing - teams can test their float ONLY AFTER PASSING SAFETY INSPECTION
		Floor 1 - Room E1300	ROV buoyancy testing - teams can test their vehicles ONLY AFTER PASSING SAFETY INSPECTION
9:00 AM - 5:00 PM	MI	Floor 2 - Atrium Floor 2 - Atrium Floor 2 - Atrium TBD	MATE Information: Scan the QR code, complete the survey, and show your confirmation at MATE Information to claim your patch—open to students, faculty, parents, judges, and volunteers! Marine Institute of Memorial University Tours - Including Simulator Time (Sign-Up Genius Link TBD) Inspiration for Innovation exhibits Fine Designs MATE Merchandise Sales - Come get your SWAG!
9:00 AM - 5:00 PM	Eng. Building	Floor 1 - Room EN1040 SDH Room	MATE Information: Scan the QR code, complete the survey, and show your confirmation at MATE Information to claim your patch—open to students, faculty, parents, judges, and volunteers!
8:30 AM - 11:30 AM	MI	See Engineering Presentation Schedule	RANGER, PIONEER and EXPLORER Engineering Presentations (continued)
	8:30		
	9:15		
	10:00		
	10:45		
8:00 AM - 1:00 PM	MI	National Research Council (NRC) - 1 Arctic Ave, St. John's	RANGER, PIONEER and EXPLORER Product Demonstrations
	8:30		
	9:00 AM		
	9:30		
	10:00 AM		
	10:30		
	11:00 AM		
	11:30		
	12:00 PM		
	12:30 PM		
11:30 AM - 1:00 PM	MI	Floor 1 - Room C1206 Student Lounge	Lunch provided in the Judges & Volunteers Hospitality Lounge (Judges & volunteers only)
12:30 PM - 2:00 PM	NRC	Floor 2 - Outside Atlantic Room	Lunch provided in the Judges & Volunteers Hospitality Lounge (Judges & volunteers only)
1:30 - 4:00 PM	MI	See Engineering Presentation Schedule	RANGER, PIONEER and EXPLORER Engineering Presentations (continued and completed)
	1:00 PM		
	1:45 PM		
	2:30 PM		
	3:15 PM		
1:10 - 6:00 PM	MI NRC	Flume Tank Ice and OEB Wave Tank	RANGER, PIONEER and EXPLORER Product Demonstrations (continued and completed)
	1:00 PM		
	1:30 PM		
	2:00 PM		
	2:30 PM		
	3:00 PM		
	3:30 PM		
	4:00 PM		
	4:30 PM		
	5:00 PM		
	5:30 PM		
5:30 PM	MI	Floor 1, 2, and 3 - Hallways	Marketing display removal - please clean out your marketing displays
6:00 PM	MI, NRC, and Eng. Building		End of scheduled events
6:00 PM	MI and Eng. Building		Teams clear out of workstations
6:30 - 8:30 PM	JAG Hotel - Blues Tower - 115 George St W, St. John's	Soundhouse Studio A-C	Friday Night Social Networking Mixer - Food will be provided for all guests [ACTIVITIES TBD]

Room W3004	Room W3029/31	Room W3033/35	Room W3005	Room E3327	Room E1320	Room W2046	Room C3206
EX13	EX14	EX15	-	RN17	RN18	-	-
EX16	EX17	EX18	PN06	RN19	RN20	RN25	-
EX19	EX20	EX21	PN05	-	-	RN21	RN22
EX22	EX23	EX24	PN07	-	-	RN23	-

Flume Tank				OEB Wave Tank				Ice Tank			
STATION #1	STATION #2	STATION #3	STATION #4	STATION #1	STATION #2	STATION #3	STATION #4	STATION #1	STATION #2	STATION #3	STATION #4
EX19	EX24	PN05	-	PN08	EX25	RN29	RN37	EX09	EX01	RN26	RN09
EX20	EX21	RN21	RN22	PN09	EX26	RN30	RN38	EX10	EX02	RN27	RN11
EX22	EX23	PN07	RN23	PN10	EX27	RN31	RN39	EX11	EX03	RN28	RN12
EX13	EX14	RN17	RN18	PN11	EX28	RN32	RN40	EX12	EX04	RN05	RN13
EX15	EX16	RN19	RN20	EX33	EX29	RN33	RN03	PN01	EX05	RN06	RN14
EX17	EX18	PN06 12V	RN25	EX34	EX30	RN34	RN02	PN02	EX06	RN07	RN15
Ovrun time				EX35	EX31	RN35	RN01	PN03	EX07	RN08	RN16
				EX36	EX32	RN36	RN04	PN04	EX08	RN10	-
				Ovrun time				Ovrun time			

Room W3004	Room W3029/31	Room W3033/35	Room W3005	Room E3327	Room E1320	Room W2046	Room C3206
EX25	EX26	EX27	PN08	RN26	RN27	-	RN28
EX28	EX29	EX30	PN09	RN29	RN30	RN31	RN32
EX31	EX32	EX33	PN10	RN33	RN34	RN35	RN36
EX34	EX35	EX36	PN11	RN37	RN38	RN39	RN40

Flume Tank				OEB Wave Tank				Ice Tank			
STATION #1	STATION #2	STATION #3	STATION #4	STATION #1	STATION #2	STATION #3	STATION #4	STATION #1	STATION #2	STATION #3	STATION #4
PN10	EX31	RN33	RN34	-	-	-	-	-	-	-	-
EX32	EX33	RN35	RN36	-	-	-	-	-	-	-	-
PN11	EX34	RN37	RN38	PN03	EX01	PN01	RN05	EX13	EX24	RN03	RN17
EX35	EX36	RN26	RN27	PN04	EX02	PN02	RN06	EX14	EX23	RN02	RN18
PN08	EX25	RN28	-	EX12	EX03	RN16	RN07	EX15	EX22	RN01	RN19
EX26	EX27	RN29	RN32	EX11	EX04	RN15	RN08	EX16	EX21	RN25	RN20
PN09	EX28	RN31	RN30	EX10	EX05	RN14	RN09	EX17	EX20	RN22	RN23
EX29	EX30	RN39	RN40	EX09	EX06	RN13	RN10	EX18	PN05	PN07	RN21
Ovrun time				EX08	EX07	RN12	RN11	EX19	PN06	RN04	-
				Ovrun time				Ovrun time			

2026 MATE World Championship – SCHEDULE of EVENTS

Visit the MATE World Championship LIVESTREAM at <https://www.twitch.tv/mateinspires1>

Saturday, June 27th, 2026 **⚠ Important: Please bring a refillable water bottle and your own food. There are no food services or places to eat available on-site.**

Time	Venue	Location	Activity										
MATE Information will be located Floor 1 - Atrium.													
6:30	Shuttle Departure from St. John's to The Launch Group 1		Shuttles to The Launch begin for teams with 8:00 AM to 10:00 AM bonus mission start times.										
8:00 AM - 12:00 PM	Marine Institute of Memorial University/The Launch	Northside Rd, Holyrood	TBD										
8:00 AM - 12:40 PM	The Launch	Floor 1 - Atrium	MATE Information: Scan the QR code, complete the survey, and show your confirmation at MATE Information to claim your patch—open to students, faculty, parents, judges, and volunteers!										
8:00 AM - 12:20 PM	The Launch	Staging area (TBD)	COLLABORATIVE BONUS MISSION										
8:00 AM	Shuttle Group 1	Shuttle Group 1	STATION #1	STATION #2	STATION #3	STATION #4	STATION #5	STATION #6	STATION #7	STATION #8	8:20 teams install sonars	-	
8:20 AM			RN01	RN12	EX01	PN11	EX15	EX26	-	-	-	8:40 teams install sonars	-
8:40 AM			RN02	RN13	EX02	PN10	EX16	EX27	RN20	RN31	RN32	9:00 teams install sonars	8:20 teams uninstall sonars
9:00 AM			RN03	RN14	EX03	PN09	EX17	EX28	RN21	RN32	RN33	9:20 teams install sonars	8:40 teams uninstall sonars
9:20 AM			RN04	RN15	EX04	PN08	EX18	EX29	RN22	RN33	RN34	9:40 teams install sonars	9:00 teams uninstall sonars
9:40 AM			RN05	RN16	EX05	PN07	EX19	EX30	RN23	RN34	RN35	10:00 teams install sonars	9:20 teams uninstall sonars
10:00 AM			RN06	PN06	EX06	EX12	EX20	EX31	RN25	RN35	RN36	10:20 teams install sonars	9:40 teams uninstall sonars
10:20 AM			RN07	PN05	EX07	EX13	EX21	EX32	RN26	RN36	RN37	10:40 teams install sonars	10:00 teams uninstall sonars
10:40 AM			RN08	RN17	EX08	PN04	EX22	EX33	RN27	RN37	RN38	11:00 teams install sonars	10:20 teams uninstall sonars
11:00 AM			RN09	RN18	EX09	PN03	EX23	EX34	RN28	RN38	RN39	11:20 teams install sonars	10:40 teams uninstall sonars
11:20			RN10	RN19	EX10	PN02	EX24	EX35	RN29	RN39	RN40	11:40 teams install sonars	11:00 teams uninstall sonars
11:40			RN11	PN01	EX11	EX14	EX25	EX36	RN30	RN40			11:20 teams uninstall sonars
12:00 PM												11:40 teams uninstall sonars	
8:00 AM - 11:30 AM	MI	Ground-level exterior bays & overhangs - backside of the building	Team work stations Repair station										
<p><b>⚠ Important Messages:</b>                      ROV Buoyancy Testing: There will be no ROV buoyancy testing area available for the bonus mission.                      Dress Code: Please dress in layers, as you will be outdoors and there may be inclement weather.</p>													
9:00	Shuttle Departure from St. John's to The Launch Group 2		Shuttles to The Launch begin for teams with 10:20 AM to 12:20 AM bonus mission start times.										
9:00 AM - 4:00 PM	Fisheries and Marine Institute of Memorial University (MI) - 155 Ridge Road, St. John's	Floor 2 - Atrium & Gym	Teams and Exhibitors pack supplies and ROVs										
		Floor 1, 2, and 3 - Hallways	REMINDER: Leave packages for shipping at Facilities and Technical Services - Room W1022 Marketing display removal - please clean out your marketing displays										
11:00	Shuttle Departure from The Launch to St. John's Group 1		Shuttles leave The Launch back to St. John's for teams with 8:00 AM to 10:00 AM bonus mission start times										
11:30 AM - 1:00 PM	The Launch	Floor 1 - Atrium	Lunch provided in the Judges & Volunteers Hospitality Lounge (judges & volunteers only)										
1:00 PM	Shuttle Departure from The Launch to St. John's Group 2		Shuttles leave The Launch back to St. John's for teams with 8:00 AM to 10:00 AM bonus mission start times										
1:30 - 3:00 PM	The Launch	Floor 1 - Atrium	Judges' meeting and scoring wrap-up										
6:45 PM - 8:00 PM	JAG Hotel - Blues Tower - 115 George St W, St. John's	Soundhouse Studio A-C	Awards ceremony Remarks by Matt Chapman, Director of Business Development, Oceaneering International										
8:00 PM - 10:00 PM	JAG Hotel - Blues Tower	Studio D	Post-awards Judge/Volunteer/VIP gathering										

**Shuttle Schedule - MATE World Championship Newfoundland & Labrador, Canada  
June 25-27, 2026 (check-in & safety inspections June 23-24)**

[Google Map->](#)

**Pick-up and drop-off locations**

[2026 WC Hotel/Venue/Shuttle Stop List](#)

<u>Venue/Hotel</u>	<u>Address</u>
Fisheries and Marine Institute of Memorial University (MI)	155 Ridge Rd, St. John's, NL A1C 5R3, Canada
Canada National Research Council (NRC)	30 Arctic Ave, St. John's, NL A1B 3V6, Canada
Engineering and Applied Science Building (Eng. Building)	S.J. Carew Building, 4 Kerwin Pl Unit 2, St. John's, NL A1B 3V6, Canada (Eng. Building)
Hilton Garden Inn St. John's Newfoundland	150 New Gower St, St. John's, NL A1C 0C1, Canada
The Murray Premises Hotel	5 Becks Cove #105, St. John's, NL A1C 6H1, Canada
Holiday Inn St. John's Conference Centre by IHG	180 Portugal Cove Rd, St. John's, NL A1B 2N2, Canada
Hampton Inn & Suites by Hilton St. John's Airport	411 Stavanger Dr, St. John's, NL A1A 0A1, Canada
Macpherson College Guest Rooms	40 Livyers Lp, St. John's, NL A1B 3P7, Canada
Fairfield by Marriott Inn & Suites St. John's Newfoundland	199 Kenmount Rd, St. John's, NL A1B 3P9, Canada
Capital Hotel	208 Kenmount Rd, St. John's, NL A1B 3P2, Canada
Marine Institute of Memorial University - The Launch (Saturday, 06/27/2026 ONLY)	Northside Rd, Holyrood, NL A0A 1V0, Canada
JAG Hotel - Blues Tower - Soundhouse (Opening, Social Networking Mixer, and Closing)	115 George St W, St. John's, NL A1C 0B7, Canada

**Shuttle Schedule**

Tuesday	Wednesday	Thursday	Friday	Saturday
06/23/2026	06/24/2026	06/25/2026	06/26/2026	06/27/2026
TBD	TBD	TBD	TBD	TBD