# UKCMS WORKED TUTORIALS

June 2012

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#### INTRODUCTION

This document contains a number of worked tutorials for the user to work through at his/her own pace. The tutorials cover a range of typical activities in the UKCMS and complement the online user manual and help. Before getting on to the exercises, let us get familiar with the links and tabs.

Home         Vessels         Voyage Planning         Transit Planning         Transit Monitoring         Met Ocean         Reporting         User Mat	agement
AMSA UKCM System	
Notifications	
20th June 2011 - The UKCM system has been updated to the latest version. Changes include:	
<ul> <li>Voyage Planning Service:         <ul> <li>Deep Draught Message has been added (output still to be agreed with pilotage providers)</li> <li>Report format has been undated</li> </ul> </li> </ul>	
o Voyane Plans can now be undeleted	
Transit Planning Service:	
<ul> <li>Deep Transit Plan route added (final design pending official depths + pilot input)</li> </ul>	
<ul> <li>Alert Patches route added (i.e North of Alert Patches)</li> </ul>	
<ul> <li>Break in Transit Plan at Larpent/Goods boarding ground added</li> </ul>	
<ul> <li>Changes to minimum depths along route based on Industry Standard Passage Plan (ISPP) routes</li> </ul>	
<ul> <li>Minor waypoint relocation</li> </ul>	
<ul> <li>Transit Plan report is now in colour</li> </ul>	
<ul> <li>Transit Plans can now be undeleted</li> </ul>	
<ul> <li>Block Coefficient (Cb) and actual stability data available in the New Transit Plan page</li> </ul>	
<ul> <li>Transit Monitoring chart has been cropped to show key areas</li> </ul>	
Met Ocean Service:	
Tidal streams charts now include historical forecast trends     Tidal streams charts now include historical forecast trends	
Truta suream charts now prostovernegative rates for easilities sureams	
Twin Island todal predictions have been added	
<ul> <li>Maximum wave hainht (Hmax) has been added to wave charts</li> </ul>	
Isability	
Visionity:     Vision vis	
<ul> <li>Internet Explorer 9 + Firefox 4 compatible</li> </ul>	
<ul> <li>Training material added to help page</li> </ul>	
Archived Notifications	
Status	
Trial system	
Support	
UKCM System Support Email: support@corc-international.com.au 24 Hour Support 1200 88 77 08	

The tabs at the top of the page can take you to the various sections of the UKCMS.

Every page has a number of links, the most common ones being <u>New</u>, <u>Search</u>, <u>Edit</u>, and <u>Delete</u>. When these links are greyed out and unavailable, it means that you do not have the permissions to perform those particular actions.

In each page, you will see a number of icons in the top right hand corner, depending on what options are available, such as printing or saving to pdf. Every page has a symbol in the top right hand corner. Click on this to view the help specifically for the page you are on. Alternatively, you can click on the Help tab.

### EXERCISE 1: CREATING A NEW VESSEL

In this exercise, you will create a new vessel to be used in the UKCMS. You will learn how to edit your vessel, and how to delete it if it is no longer needed.

You are going to the Vessels tab. Once in the vessels page, you can create a new vessel.

**1.** Click on the <u>New</u> link.

<u>Vessel Name *</u>			
IMO Number *		🔲 <u>No IMO availat</u>	ole
MMSI *			
Call Sign			
Vessel Type *	BULK CARRIER	*	
LOA (m) *			
L <u>BP (m) *</u>			
<u>Beam (m) *</u>			
Summer Draught (m) *			
Vessel Flag			
DWT (t)			

- 2. Enter the details of your vessel. All fields marked with \* are compulsory.
- 3. Click on Create
- **4.** Now you have created a vessel.
- 5. In case you entered the wrong details, click <u>Edit</u>. Now you can update your vessel details.

Vessel Name *	HALIFAX	
IMO Number *	5120075	No IMO available
MMSI *	316001835	
Call Sign	VCTM	
Vessel Type *	BULK CARRIER	*
LOA (m) *	222.60	
<u>LBP (m) *</u>	216.10	
<u>Beam (m) *</u>	22.97	
Summer Draught (m) *	8.16	
Vessel Flag	CANADA	
DWT (t)	29283	25

6. If you decide not to use this vessel, you can delete it from the system. Click on <u>Delete</u> to go to the Confirm Delete page. From here you can cancel or confirm delete of your vessel.

essel Name	A. BEDEVI	LOA (m)	114.70	Source	ShipSys
MO Number	6923709	LBP (m)	106.50	Last Update	27May2011 1110
MMSI	271000057	Beam (m)	16.67	Updated by	683
Call Sign	TCJZ	Summer Draught (m)	6.41		
Vessel Flag	TURKEY	DWT (t)	6450		
Vessel Type	GENERAL CARGO/MULTI- PURPOSE SHIP				

7. Now you have a vessel created, you can continue on to make a voyage plan or a transit plan.

#### Troubleshooting

Q: I entered the wrong vessel details, what do I do?

**A:** You can fix the details by clicking on the <u>Edit</u> link when in the vessel details page.

Q: A vessel with my IMO already exists in the database. How do I override this?

**A:** You can delete the other vessel using the <u>Delete</u> link if you are sure the previous vessel entry with the same IMO number is wrong.

### EXERCISE 2: CREATE A NEW VOYAGE PLAN

In this exercise, you will create a new voyage plan to be used in the UKCMS. A voyage plan can be created for a sailing time greater than 3 days from now. You will learn how to edit your plan and how to delete it if it is no longer needed.

You are going to the Voyage Planning tab. Once in the voyage planning page, you can create a new voyage plan.

- **1.** Click on the <u>New</u> link.
- 2. Select the direction of your voyage. Enter the target draught for your vessel. Enter the time frame for your vessel to sail.
- 3. Click on Save and Calculate
- 4. Now you have created a voyage plan.



5. This voyage plan shows you the results of the calculation. These results can be printed by clicking on the sicon in the top right hand corner and saved to pdf using the results icon in the top right hand corner.

#### Troubleshooting

- Q: I entered the wrong voyage details, what do I do?
- A: You can fix the details by clicking on the Edit link when in the voyage details page

## EXERCISE 3: CREATE A NEW TRANSIT PLAN

In this exercise, you will create a new transit plan to be used in the UKCMS. A transit plan can be created for a sailing time 5 days and less from now. You will learn how to edit your plan, and how to delete it if it is no longer needed.

You are going to the Transit Planning tab. Once in the transit planning page, you can create a new transit plan.

- **1.** Click on the <u>New</u> link.
- 2. Enter stability data for your vessel. All fields are compulsory.

New Transit Plan Vessel				
	Type part of a Vessel Name	or IMO Number to find a vessel.		
Vessel Name IMO Number MMSI Call Sign Vessel Flag Vessel Type	- LOA ( - LBP ( - Bear - Sumr - DWT	m) m) ı (m) ner Draught (m) (t)	- Source - - Last Update - - Updated by - -	
Stability Data	(calact)	KM (m)		
Drought DMD (m)				
Draught FWD (m)				
Draught Amidships (m)		<u>GMs (m)</u>		
Draught AFT (m)		- <u>FSC (m)</u>		
Displacement (t) Water dens (t/m3)	1.025	<u>GMf (m)</u>		
Status DRAFT Transit			Click to enlarge Actual Stability Data (PDF	נ
<u>Origin</u>	(select)	~		
Destination	(select)			
Transit commencement	t (local time)			
Transit plan comments Max Characters: 256	(Optional)	.:		
Save Calculate	Reset Cancel			

3. Enter the transit details.

4. Click on Calculate

5. Now you have created a transit plan.

Now we will explain a little about the transit plan report:

The first section shows the status of your transit plan report, as well as the transit plan id, transit details and load state.

Transit Plar	for HALIFAX (88109	32) 17Jun2011	0000	(Other plans for HALIFAX)
<u>ID</u> Created by Status Comment	174520.2 <u>View History</u> Capt User Pilot DRAFT <u>Change Status</u> This is a comment.	Transit Stability Data Draughts	Varzin Passage to Herald Patches, commencing at 17Jun2011 0000 Disp:30000t KM:11.60m VCG:8.00m GMs:3.60m FSC:0.30m GMf:3.30m F:11.50m M:11.50m A:11.50m	Cb:0.63

The next section shows the windows available, as well as the expected squat, tide and UKC for a given commencement time and speed profile. You can adjust the speeds by clicking the speed up down arrows.

The Transit	Plan was su Indours: 16	ICCESSfull	y calculat	ed.								C.	alculated: 16J	un2011 135
Transit Com	mencement	: 17Jun20	111 0000	window is op	ien at the stal	t or end of th	e scanned pe	riodj						
	C1/C2	C3 W	C3/C4	C4 E	Larpent	Goods	Round	Hammond	Nardana	Pullar E	Hood	Ince	OG Rock	Herald
STW (kn)	6	6	6	6	8	8	8	8	6	6	6.44 🖨	8	8	8
Time (AEST)	17/0000	17/0033	17/0050	17/0101	17/0212	17/0252	17/0320	17/0352	17/0410	17/0418	17/0429	17/0445	17/0458	17/0502
Squat(m)	0.19	0.19	0.19	0.20	0.33	0.47	0.43	0.32	0.16	0.20	0.28	0.39	0.46	0.46
Heel (m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Tide (m)	2.52	2.61	2.66	2.68	2.82	2.83	2.74	2.56	2.43	2.36	2.28	2.13	2.06	2.05
UKC-L(m)	0.91	0.64	0.49	1.07	1.62	1.55	1.71	1.53	1.64	1.46	1.59	2.34	1.17	1.60
						F	tecalculate							

The following is a UKC chart for the transit. Each colour represents a different factor, and is detailed in the legend below the chart.



The following are speed and Dynamic UKC<sup>°</sup> charts. These can be shown or hidden using the toggle link <u>Hide</u> <u>Speed and Dynamic UKC Charts</u> / <u>Show Speed and Dynamic UKC Charts</u>.



The following shows the available tidal windows for the transit. The different lines represent the windows available at each waypoint for a range of speeds, from 6 to 16 knots.



6. In the Transit Plan display, there is a status. You are going to change this status to active. To do this,

click on <u>Change Status</u> and change the status to ACTIVE in the drop down menu. Click <u>Save</u> and this will return you to the Transit Plan view. Please note that it is not possible to change the transit plan status to ACTIVE if the UKCMS predicts a breach. Exercise 4 below illustrates how to manage a UKC breach in the UKCMS.



7. This transit plan shows you the results of the calculation. Once you are happy with the plan, these results can be printed by clicking on the sicon in the top right hand corner, and saved to pdf using the sicon in the top right hand corner.

8. *Optional:* Once your transit is underway, you can monitor your vessels progress by clicking on the <u>Monitoring</u> link at the top/bottom of the page. This shows you a map of vessels currently in the Torres Strait, and whether each vessel is currently being monitored or not.



#### Troubleshooting

Q: I entered the wrong transit details, what do I do?

**A:** You can fix the details by clicking on the <u>Edit</u> link when in the transit details page.

**Q**: The UKCMS indicates that 'The Transit Plan calculation indicated that UKC constraints could not be satisfied for the intended transit'. What does this mean?

**A**: This means that somewhere along the planned passage the UKCMS predicts that the UKC will be less than AMSA's UKC limit for this vessel. Exercise 4 illustrates how this can be resolved.

# EXERCISE 4: RESOLVE A BREACH IN UKC

In this exercise, you will resolve a predicted breach in UKC in a transit plan. A breach in UKC means that the UKCMS predicts that somewhere along the planned passage that the UKC will be below AMSA's minimum required UKC. Insufficient UKC (also referred to as a 'breach' in UKC) is usually the result of:

- 1. Insufficient tide to pass all points along the route at the nominated vessel draughts and speeds.
- 2. Large dynamic vessel motions (such as squat).

A breach due to insufficient tide can be resolved by changing the transit commencement to a time when there will be sufficient tide along the transit. A breach due to vessel squat can be resolved by reducing the planned vessel speed. Both these examples are shown in the exercise below.

#### 4.1 RESOLVE A UKC BREACH DUE TO INSUFFICIENT TIDE

For this exercise it is assumed that you already have created a transit plan that is predicted to breach AMSA's UKC limit. The figure below shows a typical example of what a breaching transit plan in the UKCMS.

In this instance a 12.2m draught tanker planned to sail from Varzin to Herald Patches at 1600 on the 20<sup>th</sup> of June. The red bands in the graph indicate the region where the UKCMS predicts that the UKC will be less than AMSA's minimum required UKC. This is referred to a 'breach' in UKC.



The UKCMS will also show 'transit commencement windows' for a selected number of waypoints along the route. These windows represents the times between which the UKCMS predicts that is it safe pass these points at the nominated vessel draught. The transit commencement windows for the above breaching transit plan are shown in the figure below.



1. Change the transit commencement time by typing in a new time. From the transit commencement windows it is obvious that changing the transit commencement time from 1600 to 1900 should make it possible to transit the Torres Strait with sufficient UKC. Type in the new time.

The Trans	sit Plan ca	alculation	indicated	d that UK	C constraint	s could n	ot be satis	fied for t	he intend	ed transit			Cal	culated: 19Ju	un2012 1535
Available W	indows: 2	20/1803 to	20/2024		/1										
Transit Com	nenceme	nt: 20Juni	2012 1600												
	C1/C2	C3 W	C3/C4	C4 E	Larpent NW	Goods	Tucker	Round	Turtle	Nardana	Pullar E	Hood	Ince	OG Rock	Herald
STW (kn)	6 🌲	6	6	6 🌲	7 🌲	8 🌲	8	8	8 🌲	6	6 🌲	6	8 🌲	8 🌲	8 🌲
Time (AEST)	20/1600	20/1629	20/1644	20/1654	20/1703	20/1750	20/1820	20/1838	20/1857	20/1906	20/1916	20/1923	20/1937	20/1950	20/1954
Squat (m)	0.26	0.27	0.27	0.27	0.35	0.46	0.66	0.62	0.44	0.23	0.28	0.34	0.55	0.64	0.64
Heel (m)	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.03	0.00
Tide (m)	1.95	2.19	2.29	2.35	2.37	2.34	2.27	1.93	1.47	1.41	1.41	1.41	1.44	1.50	1.52
UKC-L (m)	0.05	-0.56	-0.61	-0.03	0.61	0.47	0.06	-0.21	-0.20	-0.50	-0.23	-0.13	0.56	0.59	0.99
							Recalcula	ate 🚽 📥		2					

**2.** Click on the 'Recalculate' button to have the UKCMS update the UKC advice. In this example, the change in transit commencement time resolved the breach. See the updated UKC graph below.

Available Windows: 20/1747 to 20/20058, 21/0109 to 21/0122 Transit Commencement: 20Jun2012 1900 To the loss to 20 and the los	The Tr	ansit F	Plan was	successfu	lly calcul	ated.									Cal	culated: 19Ju	un2012 1720
Transit Commencement: 20.Jun2012 1900         STW (an)       6 © G © G © G © G © G © G © G © G © G ©	Availa	ble W	indows: 2	0/1747 to	20/2058,	21/0109 to	21/0122										
C 1/C2         C 3 W         C 3/C4         C 4 E         Largent HW         Goods         Turker         Nardam         Pullar E         Hood         Ince         OG Rock         Herald           5 W (an)         6 ©         6 ©         6 ©         6 ©         7 ©         8 ©         8 ©         8 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         6 ©         7 ©         8 © <th>Transit</th> <th>Comn</th> <th>nenceme</th> <th>nt: 20Jun2</th> <th>2012 1900</th> <th></th>	Transit	Comn	nenceme	nt: 20Jun2	2012 1900												
STV (en)       6       6       6       7       8       8       8       6       6       6       8       8       8       9         Squat (m)       0.24       0.25       0.25       0.26       0.33       0.44       0.64       0.59       0.41       0.22       0.26       0.31       0.51       0.60       0.59         Heat (m)       0.00 </th <th></th> <th></th> <th>C1/C2</th> <th>C3 W</th> <th>C3/C4</th> <th>C4 E</th> <th>Larpent NW</th> <th>Goods</th> <th>Tucker</th> <th>Round</th> <th>Turtle</th> <th>Nardana</th> <th>Pullar E</th> <th>Hood</th> <th>Ince</th> <th>OG Rock</th> <th>Herald</th>			C1/C2	C3 W	C3/C4	C4 E	Larpent NW	Goods	Tucker	Round	Turtle	Nardana	Pullar E	Hood	Ince	OG Rock	Herald
Time (AEST)       20/1900       20/1928       20/1921       20/2000       20/2047       20/2117       20/2136       20/2202       20/2222       20/2232       20/2332       20/2312         Separation       0.00	STW (kn	)	6 🌲	6 🌲	6	6	7 🌲	8 🌲	8 🌲	8 🌲	8 🌲	6 🌲	6 🌲	6 🌲	8 🌲	8 🌲	8 🌲
Squat (m)       0.24       0.25       0.26       0.33       0.44       0.64       0.59       0.41       0.22       0.26       0.31       0.51       0.60       0.59         Heel (m)       0.00       0.00       0.02       0.00       0.00       0.01 <th>Time (A</th> <th>EST)</th> <th>20/1900</th> <th>20/1928</th> <th>20/1942</th> <th>20/1951</th> <th>20/2000</th> <th>20/2047</th> <th>20/2117</th> <th>20/2136</th> <th>20/2158</th> <th>20/2209</th> <th>20/2222</th> <th>20/2232</th> <th>20/2251</th> <th>20/2308</th> <th>20/2312</th>	Time (A	EST)	20/1900	20/1928	20/1942	20/1951	20/2000	20/2047	20/2117	20/2136	20/2158	20/2209	20/2222	20/2232	20/2251	20/2308	20/2312
Heat (m)       0.00       0.00       0.02       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.01       0.00       0.02       0.00         Tide (m)       3.04       3.09       3.10       3.06       2.85       2.75       2.58       2.45       2.53       2.59       2.69       2.74       2.76         Recalculate    Image: the transmit of	Squat (r	n)	0.24	0.25	0.25	0.26	0.33	0.44	0.64	0.59	0.41	0.22	0.26	0.31	0.51	0.60	0.59
Tide (m)       3.04       3.09       3.10       3.10       3.06       2.85       2.75       2.58       2.45       2.45       2.53       2.59       2.69       2.74       2.76         UKCL (m)       1.15       0.36       0.21       0.73       1.33       0.99       0.56       0.46       0.81       0.55       0.92       1.08       1.85       1.89       2.27         Recalculate         UKC         0/1520       0.46       0.81       0.55       0.92       1.08       1.85       1.89       2.27         UKC         UKC         0/1520       0/15	Heel (m	)	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.02	0.00
UKCL (m) 1.15 0.36 0.21 0.73 1.33 0.99 0.56 0.46 0.81 0.55 0.92 1.08 1.85 1.89 2.27 Recalculate UKC	Tide (m	)	3.04	3.09	3.10	3.10	3.06	2.85	2.75	2.58	2.45	2.45	2.53	2.59	2.69	2.74	2.76
	UKC-L (	m)	1.15	0.36	0.21	0.73	1.33	0.99	0.56	0.46	0.81	0.55	0.92	1.08	1.85	1.89	2.27
Distance (nm)	4 3 2 1 0 8 9 10 11 12 13 14			3 W 0/1928 C3/C 20/11	C4 E 20/1951	nt NW	10	Goods 20/2047	UKC	Tucker 20/2117	Roun 20/2		Vard	ana Hoo 209 20/7	vd 2232 	06 R 20/2	aok 08 irald 1/2312

#### 4.2 RESOLVE A UKC BREACH DUE TO VESSEL SQUAT

In this exercise the same vessel and transit from the previous exercise are used. This time, the user has opted to change the planned vessel speeds through Varzin Passage to 8 knots through the water. As a result of this, the UKCMS predicts that for this vessel in this instance there is insufficient UKC at C3/C4. This is shown in the figure below.



The UKC graph shows a red band at C3/C4. This indicates that there is insufficient UKC at this location. The table above the graph shows that the UKCMS predicts that at C3/C4 the UKC will be 0.04m below AMSA's limit. From the transit commencement windows graph it is also clear that it is not possible to safely pass C3/C4 at a speed of 8 knots for this vessel in this instance. At C3/C4 there is no light blue horizontal bar to indicate there is a window to pass C3/C4 at 8 knots. See also the figure below.



To resolve the issue do the following:

- 1. In the speed table, reduce the speed in the area of insufficient UKC. The transit commencement window graph indicates that a speed of 6 knots through the water is possible past C3/C4.
- 2. Click on 'Recalculate' to have the UKCMS reassess the transit plan. If the plan still shows breaches, change the speeds again to reduce vessel squat.

The image below shows the final transit plan without any predicted UKC breaches.



### EXERCISE 5: MONITOR A TRANSIT PLAN

The UKCMS has the capability of monitoring the UKC of vessels in near real-time based on the broadcast AIS positions. The UKCMS transit planning and monitoring services are designed to set up transit plans <u>prior</u> to the vessel entering the Torres Strait. To set up monitoring for a transit plan prior to the vessel refer to exercise 3. If a vessel is already in the Torres Strait and the user wants to monitor a transit plan the following work around can be used:

 Create a new transit plan and <u>set the transit commencement time to the time now plus 10</u> <u>minutes</u>. Click on 'Calculate'. This will give you 10 minutes to set up a plan and make it ACTIVE. Note: The transit commencement time needs to be set into the future; it cannot be set into the past. For example, if a vessel travels eastbound and has already passed Varzin Passage then it is not possible to set the transit commencement time to actual time of passing C1/C2.

<u>.D</u> Created by Status	174764 Mr Chr DRAF7	I.11 <u>View I</u> is Hens F <u>Change S</u>	<u>-listory</u> <u>Status</u>	Transit Stabilit Draugh	Vata D ts F	arzin Pass isp:110000 :12.20m M	age (Deep )t KM:18.0 I:12.20m A	) to Herald 0m VCG:1 x:12.20m	d Patches 13.00m GN	(Deep), co Is:5.00m I	mmencing FSC:1.00r	g at 20Jun n GMf:4.00	2012 1900 0m Cb:0.8	6	
The Transit	Plan was	successful	lly calcula	ated.									Calo	culated: 20Ju	in2012 105
Available V	/indows: 2	0/1818 to	20/2037												
					000000										
Transit Com	mencemei	nt: 20Jun2	2012 1900												
Transit Com	C1/C2	nt: 20Jun2 c3 W	2012 1900 C3/C4	C4 E	Larpent NW	Goods	Tucker	Round	Turtle	Nardana	Pullar E	Hood	Ince	OG Rock	Herald
STW (kn)	c1/c2	nt: 20Jun2 c3 w 6 🌲	C3/C4	C4 E	Larpent NW	Goods	Tucker 8	Round	Turtle	Nardana	Pullar E	Hood	Ince 8	OG Rock	Herald
STW (kn)	c1/c2 8	nt: 20Jun2 c3 w 6	2012 1900 c3/c4 6 20/1937	C4 E 8 ● 20/1946	Larpent NW 8	Goods 8	Tucker 8	Round 8	Turtle 8	Nardana 6	Pullar E 6	Hood 6	Ince 8	OG Rock 8	Herald 8
STW (kn) Time (AEST) Squat (m)	c1/c2 8 20/1900 0.47	nt: 20Jun2 c3 w 6 (\$ 20/1924 0.25	c3/c4 6 20/1937 0.25	C4 E 8 () 20/1946 0.50	Larpent NW 8 20/1953 0.45	Goods 8 20/2036 0.45	Tucker 8 20/2105 0.65	Round 8 20/2124 0.60	Turtle 8 20/2145 0.42	Nardana 6 20/2154 0.22	Pullar E 6 20/2206 0.26	Hood 6 20/2216 0.31	Ince 8 20/2233 0.52	OG Rock 8 20/2249 0.60	Herald 8 20/2253 0.60
Transit Com STW (kn) Time (AEST) Squat (m) Heel (m)	c1/C2 8 20/1900 0.47 0.00	nt: 20Jun2 c3 w 6 20/1924 0.25 0.00	2012 1900 c3/c4 6 20/1937 0.25 0.02	C4 E 8 20/1946 0.50 0.00	Larpent NW 8 20/1953 0.45 0.00	Goods 8 20/2036 0.45 0.01	Tucker 8 20/2105 0.65 0.00	Round 8 20/2124 0.60 0.00	Turtle 8 20/2145 0.42 0.00	Nardana 6 20/2154 0.22 0.01	Pullar E 6 20/2206 0.26 0.00	Hood 6 20/2216 0.31 0.01	Ince 8 20/2233 0.52 0.00	OG Rock 8 20/2249 0.60 0.02	Herald 8 20/2253 0.60 0.00
Transit Com STW (kn) Time (AEST) Squat (m) Heel (m) Tide (m)	c1/c2 8 20/1900 0.47 0.00 2.95	nt: 20Jun2 c3 w 6 20/1924 0.25 0.00 3.00	C3/C4 6 20/1937 0.25 0.02 3.01	C4 E 8 20/1946 0.50 0.00 3.02	Larpent NW 8 20/1953 0.45 0.00 2.97	Goods 8 20/2036 0.45 0.01 2.74	Tucker 8 20/2105 0.65 0.00 2.61	Round 8 20/2124 0.60 0.00 2.39	Turtle 8 20/2145 0.42 0.00 2.21	Nardana 6 20/2154 0.22 0.01 2.22	Pullar E 6 20/2206 0.26 0.00 2.32	Hood 6 20/2216 0.31 0.01 2.39	Ince 8 20/2233 0.52 0.00 2.51	OG Rock 8 20/2249 0.60 0.02 2.57	Herald 8 20/2253 0.60 0.00 2.59

- 2. If required update the planned speeds through water and click on 'Recalculate'. *Note: To resolve a breach refer to exercise 4.*
- 3. Once you are happy with the plan, click on "Change Status" and change the status to "ACTIVE". See the figure below. The UKCMS will now perform one last assessment of the UKC and if no breaches are predicted the transit plan will be monitored. Note:

- The monitoring will not initiate before the planned commencement time (which was set at the now time plus 10 minutes in step 1 above).

- The monitoring UKC graph will appear 'chopped off' as the UKCMS cannot compute UKC for the area the vessel passed prior to setting up the transit plan.