

Übungsaufgabe zur Gezeitenkunde nach ATT

Gesucht wird der Zeitpunkt für eine erforderliche Höhe der Gezeit (HdG) am Secondary Port. Dies ist wichtig für Berechnungen zum Passieren einer Barre und das Freikommen nach dem Auflaufen

| Nr. | Name | Datum | Bezeichnung | HdG | Zeit | ZZ |
|-------|----------------|----------|----------------|-----|-------------|------|
| 1671 | Port Joinville | 06.09.05 | Vor dem 1. HW | 4,0 | 0404 | MESZ |
| 1670 | Fromentine | 25.10.05 | Nach dem 1. HW | 3,5 | 1214 | MEZ |
| 1619 | Portrieux | 08.06.05 | Vor dem 1. HW | 9,0 | 0720 | MESZ |
| 1599 | Barfleur | 01.03.05 | Nach dem 1. HW | 3,5 | 1626 | MEZ |
| 1538 | Bath | 23.09.05 | Nach dem 1. HW | 3,5 | 1017 | MESZ |
| 1484 | Vlieland Haven | 12.03.05 | Nach dem 1. HW | 2,5 | 1150 | MEZ |
| 1443 | Seemannshoef | 08.03.05 | Nach dem 1. HW | 3,0 | 0341 | MEZ |
| 1438a | Otterndorf | 07.03.05 | Nach dem 1. HW | 2,8 | 1205 | MEZ |
| 3 | Lizard Point | 25.03.05 | Vor dem 2. NW | 4,0 | 1907 | GMT |
| 31 | Chesil Cove | 12.09.05 | Vor dem HW | 2,2 | 0751 | GMT |

Datum: 6.9
 Zeitzone: MESZ

Admiralty Tide Tables

AdG: Spz

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|----------------|----|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1638 | Brest | 0 | 0500 | 1100 | 0500 | 1100 | 6.9 | 5.4 | 2.6 | 1.0 |
| | | | and 1700 | and 2300 | and 1700 | and 2300 | | | | |
| 1671 | P. Jarvisville | 0 | -40 | +15 | -30 | -35 | -1.9 | -1.4 | -0.7 | -0.3 |
| | | | | | | | | | | |

| Standard Port | HW | LW | Time / Zeit | | Height / Höhe | |
|-------------------|------|------|-------------|-------|---------------|----|
| | | | HT | LT | HW | LW |
| | 0617 | 0024 | 6.6 | 1.3 | m | m |
| - SC am StP | | | | | | |
| = StP Corrected | | | | | | |
| + Diff. (ZUG/HUG) | - 28 | - 34 | - 1.8 | - 0.4 | m | m |
| + SC am SecP | | | | | | |
| = Sum SecP | 0549 | 2350 | | | | |
| Sum SecP for LT | 0649 | 0050 | 5.8 | 0.9 | m | m |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | | WT gesucht | | KT gesucht | | WuK gesucht | | H gesucht | |
|---------------------|-----|---------------------|------|------------|----|------------|-----|-------------|----|-----------|-----|
| ΔH | T | ΔH | Höhe | KT | +H | TG | +SA | KT | +H | TG | +SA |
| | 4.9 | | 3.1 | | | | | | | | |
| ΔT | | Faktor | | =WT | | | | =WT | | | |
| Faktor | | ΔT | | | | -H | | -TG | | -KT | |
| Höhe | | T | | =KT | | | | =WuK | | | =H |



Datum: 25.10.
 Zeitzone: MEZ

Admiralty Tide Tables

AdG:

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|-----------------------------|----|---------------------|---------------------|---------------------|---------------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1638 | Standard Port Brest | - | 0500 and 1200 | 1100 and 2300 | 0500 and 1700 | 1100 and 2300 | 6,9 | 5,4 | 2,6 | 1,0 |
| 1630 | Secondary Port Froerline | 0 | -50 | +20 | -20 | +10 | -1,6 | -1,2 | -0,7 | 0,0 |

| | Standard Port | HW | Time / Zeit | | HW | Height / Höhe | |
|--|---------------------|------|-------------|--|-------|---------------|---|
| | | | LW | | | LW | |
| | Standard Port | 1013 | 1657 | | 5,0 | 3,2 | m |
| | - SC am StP | | | | | | m |
| | = StP Corrected | | | | | | m |
| | + Diff. (ZUG / HUG) | + 11 | - 20 | | - 1,1 | - 1,0 | m |
| | + SC am SecP | | | | | | m |
| | = Sum SecP | 1024 | 1637 | | 3,9 | 2,2 | m |
| | Sum SecP for LT | | | | | | m |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--------|---------------------|--|
| ΔH | ΔH | 1,2 | |
| T | Höhe | 1,8 | |
| ΔT | Faktor | 0,76 | |
| Faktor | ΔT | | |
| Höhe | T | | |

| WT gesucht | | KT gesucht | | WuK gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =WuK | | =H | |

+0150
 1214



Datum: 8.6.
 Zeitzone: MEST

AdG:

Admiralty Tide Tables

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|-----------|----|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1614 | St. Malo | - | 0100 | 0800 | 0900 | 0800 | 12,2 | 9,3 | 4,2 | 1,5 |
| | | | and 1300 | and 2000 | and 1500 | and 2200 | | | | |
| 1619 | Porthneux | - | -10 | -5 | -25 | -20 | -0,9 | -0,7 | -0,2 | -0,1 |
| | | | | | | | | | | |

| | Standard Port | - SC am StP = StP Corrected + Diff. (ZUG / HUG) + SC am Secp = Sum Secp Sum Secp for LT | Time / Zeit | | Height / Höhe | |
|--|---------------|--|-------------|------|---------------|------|
| | | | HW | LW | HW | LW |
| | | | 0755 | 0222 | 11,0 | 2,4 |
| | | | | | | |
| | | | -5 | -25 | -0,8 | -0,1 |
| | | | 0750 | 0157 | | |
| | | | 0850 | 0257 | 10,2 | 2,3 |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|--|
| ΔH | | ΔH | |
| T | | Höhe | |
| ΔT | | Faktor | |
| Faktor | | ΔT | |
| Höhe | | T | |

| WT gesucht | | KT gesucht | | WuK gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =WuK | | =H | |

Datum: 1.3.05
 Zeitzone: HEZ

Admiralty Tide Tables

AdG: 047

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|-----------|------|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1600 | Charbours | -0,1 | 0300 | 1000 | 0400 | 1000 | 6,3 | 5,0 | 2,5 | 1,1 |
| | | | and 1500 | and 2200 | and 1600 | and 2200 | | | | |
| 1599 | Bar-Blou | -0,1 | +0110 | +0055 | +0052 | +0052 | +0,1 | +0,3 | 0 | 0 |
| | | | | | | | | | | |

| Standard Port | - SC am StP | = StP Corrected | + Diff. (ZUG / HUG) | + SC am Secp | = Sum Secp | Sum Secp for LT | Time / Zeit | | Height / Höhe | |
|---------------|-------------|-----------------|---------------------|--------------|------------|-----------------|-------------|------|---------------|-----|
| | | | | | | | HW | LW | HW | LW |
| | | | | | | | 1146 | 1835 | 6,0 | 1,5 |
| | | | | | | | +0100 | + 52 | +0,2 | 0 |
| | | | | | | | 1246 | 1927 | 6,2 | 1,5 |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|--|
| ΔH | | ΔH | |
| T | | Höhe | |
| ΔT | | Faktor | |
| Faktor | | ΔT | |
| Höhe | | T | |

| WT gesucht | | KT gesucht | | WuK gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =WuK | | =H | |

Datum: 23.9.
 Zeitzone: MESZ

AdG: H&B

Admiralty Tide Tables

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|---------------------------|----|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1534 | Standard Port Udisinge | 0 | 0300 | 0900 | 0400 | 1000 | 4,7 | 3,8 | 0,8 | 0,2 |
| | | | and 1500 | and 2100 | and 1600 | and 2200 | | | | |
| 1538 | Secondary Port Bath | 0 | +0125 | +0115 | +0115 | +0140 | +1,0 | +1,0 | 0 | +0,1 |

| | Standard Port | - SC am StP = StP Corrected + Diff. (ZUG / HUG) + SC am Secp = Sum Secp Sum Secp for LT | Time / Zeit | | Height / Höhe | |
|--|---------------|--|-----------------|------|---------------|-----|
| | | | HW | LW | HW | LW |
| | | | 0505 | 1126 | 4,6 | 0,2 |
| | | | 0122 | 0134 | +1,0 | 0 |
| | | | 0627 | 1300 | 5,6 | 0,7 |
| | | | 0727 | 1400 | | |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|--|
| ΔH | | ΔH | |
| T | | Höhe | |
| ΔT | | Faktor | |
| Faktor | | ΔT | |
| Höhe | | T | |

| WT gesucht | | KT gesucht | | WuK gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =WuK | | =H | |

Datum: 12.3.
 Zeitzone: MEZ

Admiralty Tide Tables

AdG:

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|-------------------------|------|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1431 | Helsingør. | +0,1 | 0200 | 0700 | 0200 | 0800 | 2,7 | 2,4 | 0,4 | 0,0 |
| | | | and 1400 | and 1900 | and 1400 | and 2000 | | | | |
| 1484 | Vindø Secondary Port | 0 | -0250 | -0320 | -0355 | -0330 | -0,4 | -0,4 | +0,1 | +0,2 |
| | | | | | | | | | | |

| Standard Port | Standard Port | HW 0202 0204 | LW 0204 2012 | Time / Zeit | | Height / Höhe | |
|---------------------|---------------|--------------------|----------------------------|-------------|-----|---------------|------|
| | | | | HW | LW | HW | LW |
| - SC am StP | | | | | | | |
| = StP Corrected | | | | | | | |
| + Diff. (ZUG / HUG) | | -0252 | -0331 | -0,4 | 0,1 | +0,1 | +0,1 |
| + SC am SecP | | | | | | | |
| = Sum SecP | | | | | | | |
| Sum SecP for LT | | 1040 | 1641 | 2,7 | 2,7 | 0,4 | 0,4 |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|--|
| ΔH | | ΔH | |
| T | | Höhe | |
| ΔT | | Faktor | |
| Faktor | | ΔT | |
| Höhe | | T | |

| WT gesucht | | KT gesucht | | Wuk gesucht | | H gesucht | |
|------------|----|------------|-----|-------------|----|-----------|-----|
| KT | +H | TG | +SA | KT | +H | TG | +SA |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =Wuk | | =H | |

(6)

Datum: 8.5.
 Zeitzone: MEZ

AdG:

Admiralty Tide Tables

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|------|-------------------------------|----|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1438 | Cux Standard Port | 0 | 0200 | 0800 | 0200 | 0900 | 3,3 | 2,9 | 0,4 | 0,1 |
| | | | and 1400 | and 2000 | and 1400 | and 2100 | | | | |
| 1443 | Seemanshöft Secondary Port | 0 | +0324 | +0332 | +0403 | +0347 | +0,2 | +0,3 | -0,4 | -0,2 |

| | Standard Port | HW | Time / Zeit | | HW | Height / Höhe | |
|-------------------|---------------|----|-------------|--|------|---------------|------|
| | | | LW | | | LW | |
| | 2232 | | 0542 | | 3,5 | | 0,4 |
| - SC am StP | | | | | | | |
| = S/P Corrected | | | | | | | |
| + Diff. (ZUG/HUG) | | | +0329 | | +0,2 | | -0,4 |
| + SC am Secp | | | | | | | |
| = Sum Secp | | | | | | | |
| Sum Secp for LT | | | 0201 | | 3,7 | | 0 |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|--|
| ΔH | | ΔH | |
| T | | Höhe | |
| ΔT | | Faktor | |
| Faktor | | ΔT | |
| Höhe | | T | |

| WT gesucht | | KT gesucht | | Wuk gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =Wuk | | =H | |



Datum: 7.3.
 Zeitzone: MEZ

Admiralty Tide Tables

AdG:

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|-------|---------------------------|----|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 1438 | Standard Port Cux | 0 | 0700 | 0800 | 0200 | 0900 | 3,3 | 2,9 | 0,4 | 0,1 |
| | | | and 1400 | and 2000 | and 1400 | and 2100 | | | | |
| 1438a | Secondary Port Othello | 0 | | | | | -0,1 | -0,1 | 0 | 0 |
| | | | +0025 | +25 | +22 | +22 | | | | |

| | Standard Port | HW | LW | Time / Zeit | | Height / Höhe | |
|--|-------------------|------|------|-------------|----|---------------|-----|
| | | | | HW | LW | HW | LW |
| | | 1000 | 1655 | | | 3,3 | 0,8 |
| | - SC am StP | | | | | | |
| | = StP Corrected | | | | | | |
| | + Diff. (ZUG/HUG) | + 25 | + 22 | | | - 0,1 | 0 |
| | + SC am SecP | | | | | | |
| | = Sum SecP | | | | | | |
| | Sum SecP for LT | 1025 | 1727 | | | 3,2 | 0,8 |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|-------|
| ΔH | | ΔH | 2,4 |
| T | | Höhe | 2,0 |
| ΔT | | Faktor | 0,83 |
| Faktor | | ΔT | +0140 |
| Höhe | | T | 1205 |

| WT gesucht | | KT gesucht | | Wuk gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =Wuk | | =H | |



Datum: 25.3.

AdG: 52

Zeitzone: GMT

Admiralty Tide Tables

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|-----|----------------------------|----|------------------|-------------|-------------|-------------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 14 | Plymouth Secondary Port | - | 0600 | 0600 | 0000 | 0600 | 5,5 | 4,4 | 2,2 | 0,8 |
| | | | and 1200 | and 1800 | and 1200 | and 1800 | | | | |
| 3 | Lizard Pt. | - | -0045 | -0100 | -0050 | -0050 | -0,2 | -0,2 | -0,3 | -0,2 |
| | | | | | | | | | | |

| Standard Port | HW | LW | Time / Zeit | | Height / Höhe | |
|--------------------------------|-----------------|-----------------|-------------|------|---------------|----|
| | | | HW | LW | HW | LW |
| | 1757 | 0006 | 5,1 | 0,9 | m | m |
| - SC am STP = STP Corrected | 0554 | 1553 | | | m | m |
| + Diff. (ZUG/HUG) | -0100 | -0050 | -0,2 | -0,2 | m | m |
| + SC am Secp = Sum Secp | | | | | m | m |
| Sum Secp for LT | 1657 | 2336 | 4,9 | 0,7 | m | m |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|-------|---------------------|-------|
| ΔH | 4,2 | ΔH | 4,2 |
| T | 3,3 | Höhe | 3,3 |
| ΔT | 0,79 | Faktor | 0,79 |
| Faktor | +0210 | ΔT | +0210 |
| Höhe | 1902 | T | 1902 |

| WT gesucht | | KT gesucht | | Wuk gesucht | | H gesucht | |
|------------|----|------------|-----|-------------|----|-----------|-----|
| KT | +H | TG | +SA | KT | +H | TG | +SA |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =Wuk | | =H | |

Datum:

12.9

AdG:

NPSZ

Zeitzone:

GMT

Admiralty Tide Tables

| No. | PLACE | SC | Time Differences | | | | Height Differences (in meters) | | | |
|-----|--------------------------|----|------------------|------|-----------|------|--------------------------------|------|------|------|
| | | | High Water | | Low Water | | MHWS | MHWN | MLWN | MLWS |
| 14 | Plym Standard Port | - | 0100 | 0600 | 0100 | 0600 | 5,5 | 4,4 | 2,2 | 0,8 |
| | | | and | and | and | and | | | | |
| 31 | Chesid Secondary Port | - | 1300 | 1800 | 1300 | 1800 | -1,5 | -1,6 | -0,5 | -0,2 |
| | | | and | and | and | and | | | | |

| | Standard Port | HW | Time / Zeit | | HW | Height / Höhe | |
|--|-------------------|-------|-------------|--|------|---------------|----|
| | | | LW | | | HW | LW |
| | | 1102 | 0422 | | 4,4 | 2,2 | |
| | - SC am StP | | | | | | |
| | = StP Corrected | | | | | | |
| | + Diff. (ZUG/HUG) | 10039 | 0 | | -1,6 | -0,5 | |
| | + SC am Secp | | | | | | |
| | = Sum Secp | | | | | | |
| | Sum Secp for LT | 1141 | 0422 | | 2,8 | 1,7 | |

| Zeit in Höhe (T->H) | | Höhe in Zeit (H->T) | |
|---------------------|--|---------------------|--|
| ΔH | | ΔH | |
| T | | Höhe | |
| ΔT | | Faktor | |
| Faktor | | ΔT | |
| Höhe | | T | |

| WT gesucht | | KT gesucht | | WuK gesucht | | H gesucht | |
|------------|--|------------|--|-------------|--|-----------|--|
| KT | | TG | | KT | | TG | |
| +H | | +SA | | +H | | +SA | |
| =WT | | =WT | | =WT | | =WT | |
| | | -H | | -TG | | -KT | |
| | | =KT | | =WuK | | =H | |