Female Officers on Board: Prejudices, Stereotypes and the Leadership Role

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Abstract

Seafaring is probably one of the most challenging working environments for a woman. For the last twenty years, women are increasing their presence in the fleet, particularly in western countries, but still the footprint in leadership roles aboard is minimal when compared to other jobs. This paper is based on a survey answered by 154 female officers from 18 countries. This survey comprises the following areas: Socio-Demographic, Labour, Work-Life Balance, Leadership Style, Harassment situations and an open section, all studied under the theory of Role Congruence. The main purpose is to determine the type of prejudice that can arise in this environment, as well as to clarify the role of women leadership. The secondary purpose is gathering data about the challenges that women face on board as Officers. We expect to find prejudice, cultural differences, harassment situations and different leadership style, but our hypotheses were not confirmed.

Keywords
Female officers, Seafaring, Mariners, Leadership, Prejudice

The International Maritime Organization (IMO) policy

International Maritime Organization-IMO, is the United Nations specialized agency responsible for the safety and security of navigation and the prevention of marine pollution from ships.

In this particular the IMO [3], has promoted a policy of integration of women in managerial positions, both on board and ashore.

Although, in western countries it is common to see women as Officers, there is still a long way to go before reaching full equality. For this, IMO has launched a series of films focused on work on board women. The organization estates that more women are needed on board, especially in leadership roles.

Additionally, the IMO Program on the Integration of Women in the Maritime Sector [4] encourages maritime academies to promote the presence of women; in this way they can reach the highest levels of competence.

The Busan declaration [5], guides the IMO policy, therefore the organization is committed to fight for the effective integration of women in managerial positions, both on board and ashore.
integration of women on board, with the same opportunities as men; literally, “work to increase awareness of the role of women as a valuable resource for the maritime industry” [5].

The WISTA

We must also mention the works of the Women’s International Shipping & Trading Association (WISTA International) [6] that gathers more than 3,000 women around the maritime industry, not only seafarers, but executives from around 40 countries all around the world, particularly in western and more developed countries. Among other works it is worth to mention the document by the name Gender Diversity: Towards Building and Maintaining a Diverse Shipboard Team, which in their own words is a ‘booklet is a joint effort by Anglo-Eastern Ship Management Limited and the International Seafarers’ Welfare and Assistance Network (ISWAN) [7] “to encourage the reader to embrace the concept of diversity on board merchant ships”. These works discuss the topics of diversity, gender, discrimination, harassment, isolation and attitudes towards women on board. Sadly, these subjects are based on perceptions about the challenges that female seafarers have to face, not being grounded on tangible data.

In addition, they also host many events, workshops, conferences and promote prizes to increase the visibility and the presence of the women in the maritime sector.

State of the question

According to Carol-Dekker and Khan [8] discrimination against women on board can make the work environment very stressful for women, subsequent investigation revealed that abusive practices against female cadets were common in the fleet. Manzano [9] in an extensive work reports that sexual harassment is not only directed at female seafarers, but that some male navigators become vulnerable when they do not fit into the male hegemonic category. The attitude towards women in many cultures range from paternalism to harassment [9]. Many men still do not tolerate the presence of women on board, especially when physical strength is required for the job, this can lead to a certain condescendence or the perception of women as inferior or unfit for the task.


WMU is committed with the female integration in this traditionally male world, this way hosted a conference in 2014, whose main conclusions were, literally:

- A declaration that IMO Members States will support the career development and mentoring of women in the maritime sector;
- Special reports at IMO’s Technical Cooperation Committee and the Councils on the conference; and
- The formation of the WMU Women’s Association (WMUWA) to complement and support the global network of Women’s Associations developed and encouraged by IMO under their 25-year-old program on the Integration of Women into the maritime sector [11].

This conference insisted in the need to strength the role of women in the maritime sector and share experiences between countries.

The pipeline problem

The pipeline problem, referred by Gipson, et al. [12] notices that some researchers have pointed to the shortage of qualified women as a contributing factor to the gender gap in leadership roles [13]. The webpage Catalyst [14] reports that male-dominated industries and occupations are particularly vulnerable to the entrenchment of male stereotypes that make it even harder for women to stand out. In the United States, only 6.6 per cent of women worked full-time in male-dominated occupations in 2017. They also point out how women working in male-dominated industries face a variety of challenges, including widespread stereotypes, such as that of the mother caregiver, or the existence of the view that women are strange people in this environment and threaten the norm.

On the other hand, the proportion of women in decision-making positions worldwide is increasing. In 2019, 29% of senior management positions were held by women, the highest figure ever recorded, although these proportions differ by region. In India, only 20% of women hold executive positions, while in Europe, North America and Australia the percentage rises to 30% [15].

Mackenzie [16] speaks about the “Leaky Pipeline”, the loss of women in technical studies, and she concluded:

- That is not the choose of women not to progress in their careers,
- Work-life balance and having a family is the main problem,
- The roles of women in these works are vital.

In her study, Mackenzie also reported the results of a survey carried out by IMarEST, [17] in 2013, showing that key issues were:

- The lack of “strength in numbers”: Women usually work on ferries and cruise ships, being always a minority on board.
- The nature of a “Mobile Career”, and the hampering of family life.
- Legacy, discrimination, the lack of female roles as mariners, etc.
- Perceived Excuses for Discrimination: Accommodation issues, women are usually designated for catering jobs, and so forth.

It is especially noteworthy the report by Kitada [18] about work-life balance, in particular motherhood. She interviewed 36 female seafarers, including ten mothers. They reported a lack of freedom in choosing to continue sailing. In fact, only five mothers returned on board after children grown up. This work also speaks about the impact of the absence from home, concluding that women are always challenged by gender roles.
Another chapter surveys about training opportunities, and exchange programs between academies [19]. In the Massachusetts Maritime Academy, the proportion of female cadets is only 12%, and seems to be the same across the country. For instance, in Spain the proportion was 19.8% in 2019 [20]. The fact is, despite those percentages of cadets, the presence of female officers in the fleet is sometimes residual. For instance, in a historic Company in Spain, such as Trasmediterranea, focused on the ferry market, the percentage of female officers is 10.7% (data from the Company itself). Chinese researchers report only 2% of female officers presence in that country [21].

The congruence of roles theory

According to the theory of role matching [22], prejudice can arise from the relationships that people perceive from the characteristics of a group, and the requirements that those roles place on the people willing to occupy it. Prejudice can occur when a stereotype does not match the attributes that certain people, who are candidates for those roles, are supposed to have. According to these authors, when a member of the stereotyped group and an incongruent role come together, this incongruity diminishes the evaluation of the individual as a member of the group. The prejudice towards women leaders derives from the inconsistency between the stereotyped characteristics of women and the requirements of the leadership role.

Hence, this theory is based on the gender role construct [23] which indicates that social roles are shared expectations about people in a category, and gender roles would be consensus beliefs about the attributes of men and women.

According to Eagly [24] these gender expectations are normative, as they describe qualities or behaviours that are desirable for each sex. Cialdini & Trost [25] talk about descriptive rules, which include what the group members do and precautionary rules which are the expectations about what they should do. Therefore, gender stereotypes are derived from observations of persons performing social roles typical of each sex, in particular, men's performing the role of family livelihood and higher status, as well as women's roles as housewives and lower status [26].

Fundamental to social role theory is that most of these beliefs about gender belong to communal and traditional attributes [24]. Typical characteristics of women include primarily a concern for the well-being of other people; for example, being loving, helpful, kind, sympathetic, interpersonally sensitive and friendly. Men are attributed with assertive, controlling and confident tendencies, being aggressive, ambitious, dominant, energetic, independent, self-reliant, self-assured, and prone to act as a leader. There is abundant evidence in the literature about the beliefs on ideal men and women.

Specifically, the presence of characteristics traditionally associated with a particular gender [27], own beliefs about ideal stereotypes [28], and gender role prescriptions [29].

To our purposes, the key part of this theory is the congruence between the leader’s role and gender roles, as well as the theory of role congruence and its ability to identify factors that influence when considering congruence between gender roles and others, especially leadership roles, as well as specifying key factors and their consequences on prejudice. According to Eagly & Karau [22] prejudice against leading women is inherent in the role of the female gender, due to the inconsistency between expectations about women's behaviour and expectations about leadership conduct.

Other authors [12] have examined gender differences in leadership style, finding evidence for similarities in leadership style between women and men. These studies also focus on the importance of context, type of task, group composition, organizational culture and industry or sector.

But, continuing with the theory of role congruence, prejudice against women leaders can lead to a less favourable evaluation of women's potential for leadership because said ability belongs to the male stereotype, and a less favourable evaluation of women's actual leadership behaviour because such behaviour is perceived as less desirable in women than in men. In this way, women may be hindered from accessing leadership positions, as they should either conform to the role assigned to their gender role, or take on the role of leader by failing according to their stereotype (e.g. motherhood).

According to Eagly & Karau [22] these two forms of prejudice should result in women having less access to leadership roles than men and more difficulty in succeeding.

Eagly & Karau [22] also refer to the conditions that moderate the bias of inconsistency of functions. These include the masculinity of the leadership role, the gender of the recipients and cultural variations, among others, which are key in a sector as traditional as merchant marine.

Gender differences and leadership styles

Blake & Mouton [30] coined the term “leadership style”, defined as the “relatively stable” set of behaviours exhibited by a leader. Blake & Mouton [30] labelled the axes on which leadership can be represented as “concern for production” and “concern for people”. It is not our aim to go into the description of all the theories about leadership styles that exist in the literature, but to point out the gender differences in leadership styles. Based on the meta-analysis carried out by Eagly & Johnson [31] on this issue, which included 167 studies, showed that women led with more democratic and participatory styles than men and that men led in a more autocratic or directive manner than women. With respect to task-oriented and interpersonal relationship-oriented styles, it was found that women were slightly more relationship-oriented than men, and there were no differences in task-oriented style. Other studies have reported more gender differences in other aspects of leadership-see the work of Gipson, et al. [12]. However, other studies indicate that men and women do not differ consistently in their style of leadership roles [32]. These papers pointed out that women tended towards interpersonal leadership as opposed to task-oriented leadership [32]. Thus, there is no strong pattern of women adopting a relationship-oriented style in the workplace, but rather contradictory outcomes. For our purposes it is more interesting as a
moderator the type of industry where leadership is exercised, as
merchant marine is a masculine-oriented sector. Gardiner &
Tiggemann [33] reported that there were no differences in
interpersonal leadership style in male-dominated industries,
but in female-dominated industries, women showed higher
rates of interpersonal leadership style than men. In relation
to the level of participation of followers, male leaders oper-
ate more autocratically than female leaders and, conversely,
women lead with a more democratic style than men [31,32].

The need for reliable data

BIMCO is now the largest international maritime transport
association, with around 1,900 members worldwide. Provides
a wide range of services to its members, including boat own-
ers, operators, managers, brokers, and agents. The latest five-
year BIMCO/ICCS Manpower Report predicts a shortage in the
supply of seafarers [34]. The report identifies a current short-
fall of about 16,500 officers (2.1%), predicting a need for an
additional 147,500 officers by 2025. The majority of officers
will come from the Philippines and Russia, followed closely by
Ukraine and India.

As stated, many studies try to understand the challenges
that women face on the fleet, but the vast majority lack of a
solid data-ground-based to draw valid conclusions.

Our intent was to take a picture of today’s panorama on
the thoughts of female officers, their problems and attitudes,
trying to reach as many women as possible. This is a study en-
tirely apart from gender policies, and tries to avoid any bias in
this regard. It only seeks to reflect the reality as it is perceived
by women on board.

Our working hypothesis will be:

• We expect to find prejudice towards female officers,
due to role inconsistency.

• Women perceive more obstacles to access leadership
positions (first officer, captain or chief engineer).

• Cultural differences are expected in the access to lead-
ership positions.

• The demands of work/life balance may delay the pro-
fessional career in a decisive way.

• The existence of situations of sexual harassment.

• Women officers will lead with a more participatory
and democratic style than men.

Materials and Method

Materials

A questionnaire was developed by a team of psychologists
and seafarers (both women and men), divided in several sec-
tions comprising questions regarding:

1. Socio-Demographic factors: Such as age, marital status,
type of contract, position on board, qualification, experi-
ence and environmental components.

2. Labour factors: Discrimination perceived, support, some
questions about the feelings of having to perform better
than male officers, stressing factors, different treatment
for being a woman and family tradition.

3. Work-Life Balance: With questions about motherhood,
family life, relations, work satisfaction, relationships on
board, etc.

4. Leadership Style: This section tries to identify any dissim-
ilar behaviour within colleagues, port staff and subordi-
nates because of gender differences, focusing on leader-
ship characteristics.

5. Harassment Situations: Clear or veiled situations of ha-
rassment from superiors, colleagues or any other. The use
of a masculine behaviour. The ability to handle unpleasant
situations.

6. Finally, a free section for suggestions.

The survey is currently online, so it is accessible at https://
forms.gle/f3GdmBLZkHKDuFn6. It is our intention to leave it
online as long as possible and to keep getting answers.

Data is publicly available in the Mendeley dataset repos-
itory at https://data.mendeley.com/datasets/4ffk2hbz32/
draft?a=3d7c2f31-1b46-4ef9-ab0c-9e1bc87190

The items are five-point Likert type scale, ranging from
never to always, or strongly disagree to totally agree, when
applicable.

The software used was the Google Docs platform and IBM
SPSS v.24.

Method

A team of Seafarers and Psychologists developed the first
version of the survey, then nine female Master Mariners and
a Chief engineer, all in active, were contacted to act as ex-
erts. They made several suggestions, adding new questions,
removing or changing items considered erroneous or badly
worded.

Additionally, a national trade union representative of
female workers from transport sector was interviewed and
gave her opinion and hints. This representative also acted as
a bridge with the ETF [35] to provide support and spread the
survey.

The first version of the questionnaire was redacted in
Spanish, then translated into English by two independent
translators. This way, there are two versions: One in Spanish
for Spain and Latin-American countries, and the international
version in English; both online since March 19th, 2019 on Go-
gle Docs platform.

The survey was distributed by social media such Facebook
groups, WISTA groups (but without official support from this
organization), contacts across Academies and Universities,
the ETF and email, by word-of-mouth traditional method.

We decided to proceed with the data analysis when the
answers dropped drastically.

Results

By September, 2019, 92 women had answered the survey
in Spanish, and 63 in English. Firstly, we show descriptive data and after that with the item analysis.

**Sample statistics**

The Age ranged from 21-years-old to 50 (M = 33.19, SD = 6.913). Experience varies from 1 to 30 years sailing (M = 5.81, SD = 5.26) (Table 1 and Table 2).

Relation with the Shipping Company is mainly permanent (51.3%) rather than temporary, by a slight difference. They mainly work in fixed routes than in tramp or non-fixed (112 to 40). Figure 1 summarized the types of vessels they have been on board. The “Other” category comprises ships as Cable, Cement-carrier, Large fishing vessels, Dredges, Large Yachts, Hospital vessels and Search and Rescue.

The sample shows a wide range of nationalities, with a

### Table 1: Resumes the professional qualification of the participants.

<table>
<thead>
<tr>
<th>Professional Qualification</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Engineer</td>
<td>5</td>
<td>3.3</td>
</tr>
<tr>
<td>First Officer</td>
<td>39</td>
<td>25.7</td>
</tr>
<tr>
<td>First Engineer</td>
<td>6</td>
<td>3.9</td>
</tr>
<tr>
<td>Master Mariner</td>
<td>43</td>
<td>28.3</td>
</tr>
<tr>
<td>Other</td>
<td>19</td>
<td>12.5</td>
</tr>
<tr>
<td>Second class engineer</td>
<td>10</td>
<td>6.6</td>
</tr>
<tr>
<td>Total</td>
<td>152</td>
<td>100</td>
</tr>
</tbody>
</table>

### Table 2: Condenses their current position on board.

<table>
<thead>
<tr>
<th>Current Position</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Captain</td>
<td>5</td>
<td>3.3</td>
</tr>
<tr>
<td>Chief Engineer</td>
<td>2</td>
<td>1.3</td>
</tr>
<tr>
<td>First Officer</td>
<td>36</td>
<td>23.7</td>
</tr>
<tr>
<td>Currently, not sailing</td>
<td>38</td>
<td>25</td>
</tr>
<tr>
<td>First engineer</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Other</td>
<td>11</td>
<td>7.2</td>
</tr>
<tr>
<td>2nd/3rd Officer</td>
<td>43</td>
<td>28.3</td>
</tr>
<tr>
<td>2nd/3rd Engineer</td>
<td>13</td>
<td>8.6</td>
</tr>
<tr>
<td>Valid total</td>
<td>152</td>
<td>100</td>
</tr>
</tbody>
</table>

### Table 3: Nationalities.

<table>
<thead>
<tr>
<th>Nationality</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Missing values</td>
<td>2</td>
<td>1.3</td>
</tr>
<tr>
<td>Algerian</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Argentina</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Australian</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Chinese</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Colombian</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>French</td>
<td>7</td>
<td>4.5</td>
</tr>
<tr>
<td>German</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Greek</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Indian</td>
<td>11</td>
<td>7.1</td>
</tr>
<tr>
<td>Italian</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Italian/Greek</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Mexico</td>
<td>2</td>
<td>1.3</td>
</tr>
<tr>
<td>Panama</td>
<td>8</td>
<td>5.2</td>
</tr>
<tr>
<td>Spanish</td>
<td>110</td>
<td>71.4</td>
</tr>
<tr>
<td>Timorese</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Tunisian</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>Uruguay</td>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>USA</td>
<td>2</td>
<td>1.3</td>
</tr>
<tr>
<td>Total</td>
<td>154</td>
<td>100.0</td>
</tr>
</tbody>
</table>

**Figure 1:** Types of vessels. Figures are totals.
majority of Spanish respondents, as they were more readily accessible. Table 3 resumes this data.

About the Crews, they are mainly multinational, only in the cases of Ferry boats on certain Companies or Government ships the crews are comprised of a single nationality. Nations present in crews are: Bangladesh, Brazil, Bulgaria, Chile, Croatia, Cuba, Cyprus, Estonia, France, Ghana, Greece, Honduras, India, Indonesia, Italy, Lethonia, Lithuania, Malaysia, Morocco, Nicaragua, Panama, Philippines, Peru, Poland, Romania, Russia, Spain, Sri Lanka, Sweden, UK, Ukraine and USA. Practically the same ranges of countries are present in Officers’ nationalities.

About the relationships of contestants, they are summarized in Figure 2.

**Labour factors**

Items in this section are reported on Table 4. Three is the central point of the scale, so items with +/- 1 point from that point are highlighted in bold.
Currently, Spain is the 4th country in the Women’s Workplace Equality Index [36], only behind Australia, Canada and New Zealand, with an overall score of 92.9/100. That means that our global sample can be biased by a majority of Spaniards, coming from a country leader in gender equality.

To detect differences and deal with this question t-test were performed between means in every item, using BCa (Bias Corrected and accelerated, 1000 samples) bootstrap method to avoid some problems with normality in few items. Significant differences were found in only 8 items of the total, as shown in Table 8.

### Table 5: Work-life balance.

<table>
<thead>
<tr>
<th>Work-Life Balance</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work is the first priority in my life</td>
<td>2.96</td>
<td>1.12</td>
</tr>
<tr>
<td>I try to have a balance between work and family life.</td>
<td><strong>4.17</strong></td>
<td>1.01</td>
</tr>
<tr>
<td>This job hinders me from having a normal family life</td>
<td>3.72</td>
<td>1.27</td>
</tr>
<tr>
<td>This job has conditioned my motherhood</td>
<td>3.67</td>
<td>1.54</td>
</tr>
<tr>
<td>I am satisfied with my professional life</td>
<td>3.85</td>
<td>0.97</td>
</tr>
<tr>
<td>I am satisfied with my personal life</td>
<td>3.98</td>
<td>0.98</td>
</tr>
<tr>
<td>I am satisfied with my male colleagues</td>
<td>3.72</td>
<td>0.87</td>
</tr>
<tr>
<td>I like to work with men</td>
<td><strong>4.26</strong></td>
<td>0.82</td>
</tr>
<tr>
<td>I’d rather work with men than with other women.</td>
<td>2.88</td>
<td>1.4</td>
</tr>
<tr>
<td>I prefer to be commanded by men</td>
<td>2.25</td>
<td>1.24</td>
</tr>
<tr>
<td>Valid N (listwise)</td>
<td>147</td>
<td></td>
</tr>
</tbody>
</table>

The items with +/- 1 point from that point are highlighted in bold.

### Table 6: Leadership style.

<table>
<thead>
<tr>
<th>Leadership Style</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>I do things differently on board for being a woman</td>
<td>2.23</td>
<td>1.26</td>
</tr>
<tr>
<td>I like to treat subordinates differently than other male officers</td>
<td>2.11</td>
<td>1.21</td>
</tr>
<tr>
<td>I have a more participative style of command than my male colleagues</td>
<td>3.23</td>
<td>1.32</td>
</tr>
<tr>
<td>I like to hear the opinions of my fellow officers before making a decision</td>
<td>3.75</td>
<td>0.93</td>
</tr>
<tr>
<td>The Port staff (dockworkers, etc.) respect me less than my fellow men.</td>
<td>2.35</td>
<td>1.01</td>
</tr>
<tr>
<td>I feel that the subordinates respect me less than my male colleagues</td>
<td>2.17</td>
<td>0.96</td>
</tr>
<tr>
<td>Valid N (listwise)</td>
<td>152</td>
<td></td>
</tr>
</tbody>
</table>

### Table 7: Harassment situations.

<table>
<thead>
<tr>
<th>Harassment Situations</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>My colleagues treat me differently (in personal dealings)</td>
<td>2.58</td>
<td>1.12</td>
</tr>
<tr>
<td>I have experienced sexual harassment on board</td>
<td><strong>1.96</strong></td>
<td>0.99</td>
</tr>
<tr>
<td>I’ve suffered advances from fellow officers on board</td>
<td>2.3</td>
<td>1.02</td>
</tr>
<tr>
<td>I have suffered advances by subordinates</td>
<td><strong>1.99</strong></td>
<td>0.95</td>
</tr>
<tr>
<td>I feel like I can’t act like a woman so as not to make misunderstandings</td>
<td>2.91</td>
<td>1.29</td>
</tr>
<tr>
<td>On board, I intend to adopt a role of masculine behavior</td>
<td>2.68</td>
<td>1.27</td>
</tr>
<tr>
<td>I have had to report an unpleasant situation due to harassment or sexual assault on board</td>
<td><strong>1.60</strong></td>
<td>0.93</td>
</tr>
<tr>
<td>I am able to handle these situations alone</td>
<td><strong>4.11</strong></td>
<td>1.09</td>
</tr>
<tr>
<td>I feel the respect of the entire crew as a woman and as an officer</td>
<td>3.77</td>
<td>0.99</td>
</tr>
<tr>
<td>Valid N (listwise)</td>
<td>149</td>
<td></td>
</tr>
</tbody>
</table>

### Work-life balance

- Items in this section are presented on Table 5.

### Leadership style

- Data is presented on Table 6.

### Harassment situations

- Data is resumed on Table 7.

### Differences between samples and cultural differences

...
Female officers’ opinions and experiences

At the end of the survey, the participants could freely leave some comments or experiences they may have had. Many of these comments are quite interesting. In this sense, many of the opinions and experiences can be understood as an interview, encompassing various aspects of those evaluated in the items. The majority of the comments underline the ideas stated on the items, but in some cases there are some experiences about harassment and bad situations on board, they are only a few, anyway.

Discussion

Sample characteristics

The main objective is to detect how prejudice works in one of the probably most historically masculine industries and with a strong tradition of clearly masculine characteristics, particularly in the leadership roles that officer positions entail. Another objective of this survey is to gather data about the challenges that women face on board as Officers, told by themselves, so researchers now are able to draw conclusions based on more than perceptions or a few interviews. Nevertheless, the secondary goal is to motivate the research on this field. We welcome any investigator across the world to spread this survey, or even use it at their discretion. Anyone interested in getting the data just can contact any of the authors.

One of the main drawbacks of this research is the sample size and its composition, with a 71% of Spanish women. Definitely, it embodies the situation in Spain with fidelity. But the great heterogeneity of the whole sample, with 18 countries represented from all over the world, can be a very good start point for future study. However, we only found differences statistically significant in 8 out of 41 items, this suggests that the opinions are not so different across diverse countries.

The sample is heterogeneous enough in terms of ages, qualification, position on board and experience, giving a good picture of the fleet situation at the present time. It is quite difficult to determine the percentage of women sailing as officers nowadays. Without the implication of the IMO itself or the Shipping Companies, it is impossible to determine a reliable figure. In this regard, we have to thank Trasmediterranea for its support. This Company has also implemented a gender equality plan to ensure that women can stay on board after maternity, for example. Another question is what happened with the female cadets after leaving the Academy. The data in Spain points that only half of them finally enter the market, most probably in other countries this proportion is smaller.

The sample also represents a wide variety of Flags, Crews and type of vessels, but with a clear preference for ferry boats and tankers, two very unlike ships. Also, the majority of the women are in a relation of some kind, and around 20% of them have children, similarly we found no correlation between being mother and stay on board, so many women are collating the roles of mother and a seafarer. Likewise, we found no correlation between motherhood and the type of contract they have with the Shipping Company.

Labour factors

We focused on items whose mean differs more than one point from the central mark (3), we also look at the standard deviation, suggesting there is an agreement on the sample, and the item should be pointing in some direction.

The first item that caught our attention was the one referred to discrimination for racial or cultural reasons, with a mean of 1.40 and SD of .76, even statistically lower in the Spanish sample, this suggests that the vast majority of female officers had not experienced that type of discrimination. The same happens with the related to physical effort.

But the lowest mean and SD correspond to the item

Table 8: Items with differences between groups.

<table>
<thead>
<tr>
<th>t-test for Equality of Means</th>
<th>t</th>
<th>df</th>
<th>Sig. (2-tailed)</th>
<th>Mean Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labour 1</td>
<td>-2.83</td>
<td>110.53</td>
<td>0.01</td>
<td>-0.43</td>
</tr>
<tr>
<td>Labour 7</td>
<td>-3.08</td>
<td>141.00</td>
<td>0.00</td>
<td>-0.73</td>
</tr>
<tr>
<td>Labour 12</td>
<td>-2.44</td>
<td>141.00</td>
<td>0.02</td>
<td>-0.38</td>
</tr>
<tr>
<td>Labour 14</td>
<td>-2.88</td>
<td>141.00</td>
<td>0.00</td>
<td>-0.49</td>
</tr>
<tr>
<td>Balance 3</td>
<td>2.04</td>
<td>141.00</td>
<td>0.04</td>
<td>0.44</td>
</tr>
<tr>
<td>Leadership 2</td>
<td>-2.9</td>
<td>141.00</td>
<td>0.00</td>
<td>-0.61</td>
</tr>
<tr>
<td>Leadership 3</td>
<td>-2.54</td>
<td>122.65</td>
<td>0.01</td>
<td>-0.53</td>
</tr>
<tr>
<td>Harassment 8</td>
<td>2.37</td>
<td>75.72</td>
<td>0.02</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Note: Positive Mean differences indicate Spanish sample Mean is higher and negative, lower.
Sometimes I take advantage of my status as a woman to not do certain jobs. This is, in our opinion, a clear message about women’s commitment with their work and self-confidence and clearly shows determination and empowerment. In this sense, the assumptions of the first two hypotheses have not been fulfilled, since female officials do not perceive discrimination because they are women, nor do they feel that there are more obstacles to accessing leadership positions. Even item I have experienced onboard discrimination for racial or cultural reasons presents a clearly lower average on the scale. However, there are cases of discrimination for cultural reasons, in a particular way, since as can be seen in some testimonies- sometimes there are cases of discrimination, both because of inconsistency of roles (women should be at home), and for cultural reasons.

Family tradition does not seem to be a factor to be seafarer, likewise, women do not feel discriminated economically.

Work-life balance

The most salient items in this scale could be the referred to the effort that female officers put on balancing work and family, it would be interesting to compare this result with a male sample, as we have the perception that in modern societies this is a great concern for the public. But of course, the seafarers’ work particular characteristics made this a crucial point of interest. Here again, we cannot claim that our hypothesis is fulfilled about the delay that can occur in one’s professional career due to the reconciliation with family life. Although the officers are clear that family life is very important and they make great efforts to reconcile it, this does not seem to slow down their career in the civil marine. However, a fact that seems to contradict this statement is that 41.6% of the participants do not have a partner. It would therefore be interesting to see whether this percentage is also common among men. Hence, it seems that the characteristics found by Gibson predominate, since there seems to be evidence in favor of the similarities in leadership style between women and men given the importance of the context and the type of sector. That is to say, the environment establishes a leadership style that does not admit differential behaviour patterns, imposing the context, the type of task and the organizational structure.

Another salient output is that women like to work with men, which may be a trait required for this kind of job. It is worth a further analysis in our opinion.

Leadership style

We were expecting this output, because in our opinion-based on experience, there is no difference in leadership style between genders on board. This kind of job requires a behaviour fixed by roles and position, inside a vertical pyramidal-type organization, leaving small room for a more participative style. The Spanish sample presents differences in two items with the international, but not so far from the mean to represent a real change in terms of leadership style. From professional opinions and experiences, it could be foreseen how leadership styles were not at all going to be separated from those used by men, however, the literature states some differentiation. In our opinion the only possible leadership style in a typically pyramidal organization, with strong hierarchization and well-defined roles, is more directive than participatory, with no possibility of applying leadership styles more in vogue today. It is proven that women adapt perfectly to their position and exercise leadership effectively.

Harassment situations

Once again, we are not able to say that our hypothesis about harassment situations has been fulfilled, since the vast majority of women claim not to have suffered from them (although we find some testimonies to the contrary, they seem to be a minority).

The majority of women have not experienced harassment situations on board, as the mean is “almost never”. This can be seen as an advance in women rights and equality. This piece of evidence is supported with the result of the item about the need of reporting unpleasant situations. Also, the mean of the item related to the ability to handle these situations (Higher in the Spanish sample) speaks about the self-confidence of these women. Obviously, unpleasant situations and advances are still present, but perhaps no more than in any other work environment. We believe that there can be also a cultural gap in this matter that have to be thoroughly studied, still the output is clear.

Differences between samples

Only in 8 items we found some differences between Spanish and international sample. Regrettably, we could not collect more data on certain countries to do an extensive study, but given the research on gender differences, we can suppose that in the western-culture nations the results would be more alike to the Spanish group. Cultural differences are still out there, and more implication of the IMO and National Administration is needed to get a valid sample to perform some test between countries from different social basis. While cultural differences must undoubtedly exist, the fact is that the officers surveyed do not seem to report this, as these differences are only apparent in three items of the total. This may indicate how women who decide to work in this environment are willing to overcome the social, labor and cultural barriers they face, making themselves respected despite the harsh environment. Evidently, the sample of women coming from countries in the second, third and especially the fourth quartiles is scarce (20 out of 154). This may be due to the fact that so very few women from these countries have access to positions of responsibility in the fleet or that our questionnaire has not been able to access them.

However, differences are so small that we can conclude that there is a “common spirit”, any kind of collection of traits and behaviours that female officers have in common. The firm intention to thrive in what is probably the most masculine profession, the spirit of endurance and the passion for sailing are many of them. We can see them in the experiences told by many of the participants.

Female officers’ opinions and experiences

We can see in the experiences told by many of the contes-
tants a lot of the information picked in the survey. We think that these stories speak by themselves and point out that there is still a long way to complete equality and to see as completely normal a woman in a position normally occupied by a man, particularly in certain countries. In some cases, the opinions seem to contradict the majority, as they are personal experiences and that is why we find them interesting. They reflect only particular cases, and the predominantly opinion in line with the principles, interests and experiences captured by the survey items.

We again welcome researchers all over the world to expand this survey, as it will be online for a long time, we expect to have new results. Any investigator interested in the data, just email the correspondent author.

But, again, if IMO really intends to impulse their policy of equality on board and attract more women to the fleet it is mandatory to work alongside with National Administrations and Shipping Companies to facilitate solutions to the factors that we have detected. More sound investigation in certain countries is compulsory if we want draw more conclusions, so we encourage interested researchers to continue this work.

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We have to thank as well The Director of Health Risk Prevention of the shipping Company Armas-Trasmediterranea for his information and ideas.

Conflict of Interest

We have no known conflict of interest to disclose.

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