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CHAPTER BIBLIOGRAPHY

- DINSTEIN Yoram, "Air and Missile Warfare under International Humanitarian Law", *Military Law and Law of War Review*, vol.52, issue 1 (2013), pp.81-92.
- HENDERSON Ian, "Manual on International Law Applicable to Air and Missile Warfare: A Review", *Military Law and Law of War Review*, vol.49, issue 1 and 2 (2010), pp.169-184.
- ROBERTSON Christian H, "Different problems require different solutions: how air warfare norms should inform IHL targeting law reform & cyber warfare", in *University of Michigan Journal of Law Reform*, vol.52, issue 4 (2018-2019), pp.985-1012.

Introductory text

Specific IHL on air warfare governs only attacks against targets in the air and the protection of aircraft. Attacks on targets on land from the air, as well as those that may otherwise affect civilians or civilian objects on land, both of which have the greatest humanitarian consequences, are governed by the detailed rules regarding the conduct of hostilities. The continuous and rapid technological progress being made in the area of aviation, the key role played by air forces in present-day warfare and the economic importance of this sector of the armaments industry[1] explain the difficulties encountered in perfecting treaty provisions specifically governing air warfare.

Air warfare has evolved considerably in line with technological advances. Initially used for reconnaissance (airships at the end of the nineteenth century), then gradually as a powerful strike force during the twentieth century, air power has more recently been a vital instrument in the "zero-casualty" wars conducted by the United States and its allies, a doctrine aimed at eliminating war on land or subordinating it to air strikes (the main examples being the Gulf War in 1991, strikes against the Federal Republic of Yugoslavia in 1999, and, to a certain extent, air strikes in Afghanistan in 2001/02 and in Iraq in 2003). Technological developments such as electronic means of target recognition and evaluation, "intelligent" munitions or unmanned aerial vehicles may promote respect for traditional principles, but they can also give the individuals who have to apply the rules an illusion of diminished responsibility with regard to respecting IHL. Nonetheless, the problems posed by air warfare have far more to do with traditional concepts of the laws of war on land (target

selection, principles of proportionality and discrimination, etc.) than with the specificities of air combat in the strict sense of the term.

The legal instruments specifically dealing with the subject of air warfare are thus few in number and limited in effect. The Hague Declaration of 1907[2] prohibited the discharge of projectiles and explosives from balloons or other similar new methods at a time when air technology was not sufficiently advanced to permit the precise targeting of objectives to be destroyed. After the First World War another specific instrument was drafted. The Rules concerning the Control of Wireless Telegraphy in Time of War and Air Warfare (commonly referred to as the Hague Rules)[3] were drafted in 1922 and 1923. Although those rules were never ratified by States, large parts are considered to be customary law binding on the whole of the international community. Certain rules defined in that instrument – such as the distinction between military aircraft and other aircraft, and the prohibition of bombing targets other than military objectives – remain crucial. The latter point was recalled by the Assembly of the League of Nations, which adopted a resolution[4] to that effect 15 years later. As for civil aviation, it is protected in time of peace by conventions banning the capture or destruction of civilian aircraft and defining a number of offences against civilian aircraft that may occur on board or in airports.[5] However, the extent to which these conventions apply in times of war is a point of debate.

A group of experts tried to restate the law applicable to air warfare in the Manual on International Law Applicable to Air and Missile Warfare,[6] along the lines of what the San Remo Manual[7] did for naval warfare, taking new technological developments and the practice of major air forces into account. The important role played by representatives of major air forces was more problematic than that of representatives of major navies in drawing up the San Remo Manual, because air warfare affects civilians in countries without major air forces much more than naval warfare affects civilians in countries without navies. The Manual nevertheless reflects a consensus between military and humanitarian experts, even though it was in many cases possible to write down only the least common denominator, in particular in the crucial area of protection of the civilian population on land against air attacks.

The use of air power in armed conflicts covers three situations: air attacks on targets on land, over-flight above sea or engagement in combat with naval forces from the air and, air-to-air warfare. As regard to naval warfare, the Manual on Air and Missile Warfare restates and develops important rules, some of which are set out in the San Remo Manual[8], on the protection of civilian aircraft[9] and in particular civilian airliners,[10] the meaning of exclusion and no-fly zones[11] and the possibility for aircraft (and their crews) to surrender[12], which also apply to the protection of aircraft flying above sea. This does not give rise to many comments. The two other situations however deserve more attention.

With respect to air attacks on targets on land, and as restated above, those are governed by the rules regarding war on land. The Hague Regulations already prohibit “bombardment, by whatever means, of towns, villages, dwellings, or buildings which are undefended”. [13] Cultural property and places of worship

are protected against any form of attack by the Hague Convention of 1954[14] and Article 53 of Protocol I. Most importantly, Article 49(3) states that the rules of Protocol I for the protection of the civilian population are applicable to air operations which may affect the civilian population on land, including attacks from the air against objectives on land. The rules of the Manual on Air and Missile Warfare mainly restate Protocol I, with some regrettable omissions[15] and some useful clarifications.[16]

As important air powers are not party to Protocol I, the question arises whether the same rules apply under customary law to all attacks on targets on land, including if directed from the air, even though the latter were traditionally discussed under the heading of the law of air warfare. The implicit answer of the Manual on Air and Missile Warfare is affirmative, and this is correct for several reasons. Foremost, modern technology makes attacks on a given target by the air force, missiles or artillery interchangeable. Secondly, most discussions on the law of the conduct of hostilities in recent years, by States, NGOs, the Prosecutor of the International Criminal Tribunal for the former Yugoslavia (ICTY) [17] and authors refer mainly to aerial attacks, but no one claims that the law applicable to land attacks would be different. The United States Department of Defense Report on the Conduct of the 1991 Gulf War,[18] for instance, discusses targeting mainly in relation to cases which actually consisted of aerial bombardments, but makes no distinction between those attacks coming from the air or by missiles or artillery. As for the standards it applies, it refers exclusively to the law of land warfare, including Article 23(g) of the Hague Regulations, and applies or criticizes (indifferently for air and land warfare) certain provisions of Protocol I. At the Diplomatic Conference which adopted Protocol I, Article 49(3) gave rise to considerable controversy, in particular as to whether the rules of the Protocol should only apply to attacks against objectives “on land”, but no State questioned the idea that such attacks should at least be covered.[19]

Protocol I therefore prohibits attacks on the civilian population and civilian property regardless of whether the attack is on land, from the air or from the sea. In addition, International Humanitarian Law (IHL) prohibits indiscriminate attacks, attacks on installations and works containing dangerous forces and the use of methods and means of warfare which are intended or may be expected to cause damage to the natural environment and thereby to prejudice the health or survival of the population. All these specific rules in Protocol I also apply to air warfare, as long as there is a connection with protecting the civilian population on land.

With regard to air-to-air warfare, a situation of more limited humanitarian importance in respect of which the Manual on Air and Missile Warfare has led to genuine progress in clarifying the law, no one disputes, as formulated by Oppenheim/Lauterpacht, that the same “humanitarian principles of unchallenged applicability [apply as in land warfare, including] the fundamental prohibition of direct attack upon non-combatants [and therefore, we would add, also the principle of distinction and the prohibition of indiscriminate attacks]. Whenever a departure from these principles is alleged to be necessary, its cogency must be proved by reference either to express agreement or to the peculiar conditions of air warfare.”[20] Examples of express agreement that does not depart from, but rather applies, the general principles can be found in the Geneva

Conventions' rules protecting medical aircraft, which were greatly improved and developed in Protocol I.[21] Such rules are now restated in the Manual of Air and Missile Warfare as customary law equally binding upon States not party to Protocol I.[22] For the rest, any modification of the fundamental principles, and we would add of the rules for attacks on targets on land which specify them, must be "proved by reference to the peculiar conditions of air warfare" [23] . In this respect, the Manual on Air and Missile Warfare helps identify in what respect the details must be adapted to the physical realities of the air environment. One of the realities of that environment, mentioned by Oppenheim/Lauterpacht, is that "the danger of surprise on the part of apparently inoffensive civil aircraft will probably impose upon the latter special restraints as the price of immunity." [24] Following the terrorist attacks of 11 September 2001, this fear has become even more important. The Hague Rules defined circumstances in which aircraft lose their protection (for the aforementioned reason) very broadly, due to the more rudimentary means of verification and communication existing at the time. They stated in particular that enemy civilian aircraft "are exposed to being fired at" when flying: within the jurisdiction of the enemy; in the immediate vicinity of such jurisdiction and outside that of their own country; in the immediate vicinity of the military land and sea operations of the enemy; or even within the jurisdiction of their State, but there only if they do not land at the nearest suitable point when an enemy military aircraft is approaching.[25] The conditions for neutral civilian aircraft losing protection were also formulated very broadly.[26] From the wording of the rules, it is not clear whether the terms "are exposed to being fired at" refer to a factual risk of aircraft engaged in such behaviour or to a loss of immunity in law. Here too, "the fundamental prohibition of direct attack upon non-combatants", which was "unchallenged" even at that time, leads us to the understanding that the terms could only refer to the factual risk such aircraft take, but not to a license to deliberately attack civilian aircraft identified as such and known not to be engaged in hostile activities. Today, the circumstances that make enemy and neutral civil aircraft 'may' lose protection are listed in the most detailed manner, confirmed by several military manuals and several rules of the San Remo Manual, in the Manual on Air and Missile Warfare.[27] We are however of the opinion that civilian aircraft may only be attacked, even in the listed situations, if they actually constitute military objectives.

Another specific treaty provision is Article 57(4) of Protocol I, which states that in air warfare "each Party to the conflict shall take all reasonable precautions to avoid losses of civilian lives and damage to civilian objects". The standard of "reasonable" is undoubtedly slightly different from, and a little less far-reaching than, the expression "take all feasible precautions" used in paragraph 2 of the same article [28] . The provision is explicitly qualified by a reference to the existing rules ("in conformity with its rights and duties under rules of international law applicable to armed conflict"). This must probably be understood as a simple saving clause in respect of those rules applicable to air warfare. It nevertheless indicates an authoritative understanding of the States drafting Protocol I that "reasonable precautions" have to be taken according to those other rules which are not yet codified in a treaty.[29]

What precautions have to be taken has been detailed out in the Manual on Air and Missile Warfare. The danger of surprise and the difficulties of identifying civil aircraft, in the sense that in the air environment an

attacker has less possibility to verify the true character of an unknown aircraft, lead the Manual to prescribe several passive precautions against attacks and corresponding active precautions. Passive precautions that must be taken by civil aircraft include *inter alia* filing their flight plans, not to deviate from those plans, or to avoid areas of military operations. Corresponding active precautions to be taken by the attacker include measures of verification and warning, which must be taken before attacking aircraft.[30] Besides, the peculiarities of the air environment have also resulted in special rules on the interception, visit and search of civil aircraft, which are based on those applicable on the sea, but take into account that an aircraft, unlike a ship, cannot be boarded while flying.[31]

Lastly, air-to-air operations may endanger civilians and civilian objects on land. Military objectives in the air above land perforce fall on land if they are successfully hit. The wording of Article 49(3) of Protocol I makes the provisions of that Protocol applicable to “air or sea warfare which may affect the civilian population, individual civilians and civilian objects on land”. In any case, the principles of immunity, distinction, necessity and proportionality are of general application, and precautionary measures resulting from those principles must certainly also be taken in this respect by States not parties to Protocol I. The obligations to choose appropriate methods and the appropriate target when a choice exists and to verify whether the proportionality principle is respected are particularly relevant. Those planning and deciding an attack on enemy military aircraft are simply most often unable to foresee where such a moving target will actually be hit and the crew operating an aircraft or a missile has no time to evaluate alternatives and only rarely sufficient certainty that an alternative attack will actually be successful. This is at least the case in generalized international armed conflicts.

^ CASES AND DOCUMENTS

- HPCR, Manual on International Law Applicable to Air and Missile Warfare
- United States/United Kingdom, Conduct of the 2003 War in Iraq
- ICTY, The Prosecutor v. Tadic [Part A., para. 100]
- Federal Republic of Yugoslavia, NATO Intervention
- Afghanistan, Operation “Enduring Freedom”

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- BOURBONNIÈRE Michel & HAECK Louis, “Military Aircraft and International Law: Chicago OPUS 3” in *Journal of Air Law and Commerce*, Vol. 66, No. 3, Summer 2001, pp. 885-978.
- DAHL Arne Willy, “Attack in air and missile warfare”, in *IYHR*, Vol. 43, 2013, pp. 215-261.
- GREEN Leslie C., “Aerial Considerations in the Law of Armed Conflict”, in *Annals of Air and Space Law*, Vol. 5, 1980, pp. 89-117.
- Program on Humanitarian Policy and Conflict Research at Harvard University, *Manual on*

International Law Applicable to Air and Missile Warfare, Cambridge, Cambridge University Press, 2013, 441 pp.

- RONZITTI Natalino & VENTURINI Gabriella (eds), *The Law of Air Warfare: Contemporary Issues*, Utrecht, Eleven International, 2006, 340 pp.
- SASSÒLI Marco & QUINTIN Anne, "Active and Passive Precautions in Air and Missile Warfare", *Israel Yearbook on Human Rights* 44 (2014), pp. 69-123.

Further reading:

- BOURBONNIÈRE Michel, "Jus in bello spatiale", in *Air and Space Law*, Vol. 25, No.1, 2000, pp. 2-11.
- BOURBONNIÈRE Michel, "Law of Armed Conflict (LOAC) and the Neutralisation of Satellites or ius in bello satellitis", in *Journal of Conflict & Security Law*, Vol. 9, No. 1, Spring 2004, pp. 43-69.
- BRING Ove, "Target area bombing", in *Israel Yearbook on Human Rights*, Vol. 43, 2013, pp. 199-213.
- BRISTOL Matt C. C., "Hawks in Doves Clothing?", in *The Air Force Law Review*, Vol. 20, No. 1, 1978, pp. 48-70.
- CANESTARO Nathan, "Legal and Policy Constraints on the Conduct of Aerial Precision Warfare", in *Vanderbilt Journal of Transnational Law*, Vol. 37, No. 2, 2004, 431-484.
- CRYER Robert, "The fine art of friendship: jus in bello in Afghanistan", in *Journal of Conflict and Security Law*, Vol. 7, No. 1, 2002, pp. 37-83.
- DINSTEIN Yoram, "The Laws of War in the Air", in *IYHR*, Vol. 11, 1981, pp. 41-64.
- HEINTSCHEL VON HEINEGG Wolff, "Aerial blockades and zones", in *IYHR*, Vol. 43, 2013, pp. 263-295.
- HOSTETTLER Peter, "Reflexions on the law of neutrality in current air and missile warfare", in *IYHR*, Vol. 44, 2014, pp. 145-166.
- HULL Cordel, "Flights on Belligerent Military Aircraft", in *International Law Studies Series, U.S Naval War College*, Vol. 152, 1939, pp. 152-153.
- JACOBSSON Marie, "Protection of the environment and air and missile warfare: some reflections", in *IYHR*, Vol. 45, 2015, pp. 51-66.
- MILLET-DEVALLE Anne-Sophie, *Guerre aérienne et droit international humanitaire*, Paris, Éditions Pedone, 2015.
- PARKS William H., "Linebacker and the Law of War", in *Air University Review*, January-February 1983, pp. 2-30.
- RAMAY Robert A., "Armed Conflict on the Final Frontier: The Law of War in Space", in *The Air Force Law Review*, Vol. 48, 2000, pp. 1-157.
- ROSCINI Marco, "Targeting and Contemporary Aerial Bombardment", in *ICLQ*, Vol. 54, No. 2, 2005, pp. 411-444.
- SABEL Robbie, "Chivalry in the Air?: Article 42 of the 1977 Protocol I to the Geneva Conventions", in SCHMITT Michael N. (ed.), *International Law Across the Spectrum of Conflict*, Newport, R.I., 2000, pp. 439-453.

- SPAIGHT James M., *Air Power and War Rights*, London, Longmans, 1947, 523 pp.
- STEPHENS Dale, “The age of the manual- the impact of the manual on international Law applicable to air and missile warfare”, in *Israel Yearbook on Human Rights*, Vol. 45, 2015, pp. 19-36.
- WANG Haiping, “Comments on the 2007 Draft Manual on International Humanitarian Law in Air and Missile Warfare”, in *Chinese Journal of International Law*, Vol. 7, Issue 1, 1 March 2008, pp. 107–113.

I. The specificities of the air environment

1. The danger of surprise and the difficulty to identify
2. The laws of gravity mean that all damaged aircraft fall to earth or into the sea

II. Applicability of the general principles

▸ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- SQUADRON Leader, *Basic principles of air warfare (The influence of Air power on sea and land strategy)*, Saffron Walden, Militarybookshop, 2011, 160 pp.

III. Applicability of the general rules on the protection of the civilian population against the effects of hostilities to aerial bombardments of targets on land

P I, Art. 49(3) (*See supra*, Conduct of Hostilities, II. The protection of the civilian population against the effects of hostilities)

▸ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- BYRON Christine, “International Humanitarian Law and Bombing Campaigns: Legitimate Military Objectives and Excessive Collateral Damage”, in *Yearbook of International Humanitarian Law*, Vol. 13, 2010, pp. 175-211.
- MARKHAM Christopher & SCHMITT Michael, “Precision air warfare and the law of armed conflict”, in *IYHR*, Vol. 43, 2013, pp. 297-319.
- PARKS William H., “Conventional Aerial Bombing and the Law of War”, in *United States Naval Institute Proceedings*, Vol. 108, No. 951, 1982, pp. 98-117.
- WATKIN Kenneth, “Targeting in air warfare”, in *Israel Yearbook on Human Rights*, Vol. 44, 2014, pp. 1-67.

IV. Applicability of the general rules on the protection of the civilian population against the effects of hostilities to air operations which may affect the civilian population on land

P I, Art. 49(3) (See *supra*, Conduct of Hostilities, II. The protection of the civilian population against the effects of hostilities)

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- MUHAMMEDALLY Sahr, "Minimizing civilian harm in populated areas: lessons from examining ISAF and AMISOM policies", in *International review of the Red Cross*, Vol. 98, No. 901, April 2016, pp.225-248.
- PARKS Hays, "The protection of civilians from air warfare", in *Israel Yearbook on Human Rights*, Vol. 27, 1997, pp.65-112.

V. Aircraft over sea are governed by the law of naval warfare

VI. Specific rules for warfare against objectives in the air

1. Aircraft which may not be attacked

- a. **The protection of medical aircraft and their identification** GC I, Arts 36 and 37; P I, Arts 24-31 (CIHL, Rules 29 and 30)

^ CASES AND DOCUMENTS

- San Remo Manual on International Law Applicable to Armed Conflicts at Sea (Paras 53 and 54)
- HPCR, Manual on International Law Applicable to Air and Missile Warfare (Rules 75-87)

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- CUMMINGS Edward R., "The Juridical Status of Medical Aircraft Under the Conventional Laws of War", in *Military Law Review*, Vol. 66, Fall 1974, pp. 105-141. Résumé : Cet article de Edward R Cummings traite du développement conventionnel de la protection du personnel médical et des véhicules. Puis offre une analyse des dispositions des Conventions de 1949. Enfin, l'auteur décrit les initiatives récentes pour le développement du statut des avions et autres appareils médicaux.
- DOSWALD-BECK Louise, "Vessels, Aircraft and Persons Entitled to Protection During Armed Conflicts at Sea", in *BYIL*, 1994, pp. 262-268.
- DOSWALD-BECK Louise, "The Protection of Medical Aircraft in International Law", in *IYHR*, Vol. 27,

1997, pp. 151-192.

- EBERLIN Philippe, "The Identification of Medical Aircraft in Periods of Armed Conflict. Identification of Hospital Ships and Ships Protected by the Geneva Conventions of 12 August 1949", in *IRRC*, No. 229 & 231, November-December 1982, 31 pp.

Further reading:

- DOSWALD-BECK Louise, "Vessels, Aircraft and Persons Entitled to Protection During Armed Conflicts at Sea", in *BYIL*, 1994, pp. 262-268.
- EVRARD Edgar, "Le nouveau statut protecteur des transports sanitaires par voie aérienne en temps de conflits armés", in *RGDIP*, Vol. 82, 1978, pp. 59-69.

aa) Circumstances precluding protection

▾ CASES AND DOCUMENTS

- San Remo Manual on International Law Applicable to Armed Conflicts at Sea [Paras 53-58]
- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 74 and 83]

▾ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- K.KLEFFNER Jann, "V. Medical aircraft", in FLECK Dieter (Ed), *The handbook of international humanitarian law*, 3d Ed, Oxford, OUP, 2013, pp. 620-623.

a. The protection of civil and neutral aircraft

▾ CASES AND DOCUMENTS

- San Remo Manual on International Law Applicable to Armed Conflicts at Sea [Paras 55 and 56]
- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 47-70]

▾ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- ROBERTSON Horace B., "The Status of Civil Aircraft in Armed Conflict", in *IYHR*, Vol. 27, 1997-1998, pp. 113-150.

Further reading:

- DOSWALD-BECK Louise, “Vessels, Aircraft and Persons Entitled to Protection During Armed Conflicts at Sea”, in BYIL, 1994, 268-277 pp.

aa) Circumstances precluding protection

^ CASES AND DOCUMENTS

- San Remo Manual on International Law Applicable to Armed Conflicts at Sea (Paras 62, 63 and 70)
- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 47,50,52,174]

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- DE LUCA Anne, “Using the Air Force against Civil Aircraft: From Air Terrorism to Self-Defense”, in *Air and Space Power Journal-Africa and Francophonie*, Vol. 3, No. 3, 2012, p. 45-58, available at http://www.airuniversity.af.mil/Portals/10/ASPJ_French/journals_E/Volume-03_Issue-3/deLuca_e.pdf.

2. Surrender of military aircraft?

^ CASES AND DOCUMENTS

- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 125-131]

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- BUCCHAN Russel, “The role of surrender in international humanitarian law”, in *Israel Law Review*, Vol. 35, No. 1, 2018, pp. 3-27.
- DINSTEIN Yoram, “Air and Missile Warfare Under International Humanitarian Law”, in *Military Law and the Law of War Review*, Vol. 52, No. 1 (2013), pp. 81-92.

Further reading:

- ANDERSON Orvil A. & RODENHAUSER Jermain F., “Military aircraft in time of peace”, in *Air Affairs*, Vol. 17, 1947, pp.17-25
- WILSON Norman S., “Liability to passengers in military aircraft”, in *Military law and the law of War Review*, Vol.42, 1968, pp.101-151.

3. Ruses of war and perfidy

^ CASES AND DOCUMENTS

- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 111-117]

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- FLECK Dieter, “Ruses of war and prohibition of perfidy”, in *Military law review*, (1974), vol.13, pp.269-314.
- WATTS Sean, “Law of War Perfidy”, in *Military law review*, (2014), vol.219, pp.106-175.

Further reading:

- HENDERSON Ian, DEN DULK Jordan & LEWIS Angeline, “Emerging technology and Perfidy in Armed Conflict”, in *International Law Studies Series*, (2015), U.S Naval War College, vol.91, pp. 468-485.
- MADDEN Mike, “Of Wolves and Sheep: A Purposive Analysis of Perfidy Prohibitions in International Humanitarian Law”, in *Journal of Conflict & Security Law* (2012), Vol. 17 No. 3, pp. 439–463.

4. The status of parachutists

P I, Art. 42

^ CASES AND DOCUMENTS

- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 132-133]

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- HENDERSON Ian, “Manual on International Law Applicable to Air and Missile Warfare : A review”, in *Military law review*, Vol. 49, 2010, pp.169-184.

Further reading:

- CSAPO Zsuzsanna, “World War I and the Appearance of Aerial Warfare: A Launca in the texture of International Law”, in *Hungarian Yearbook of International Law and European Law*, Vol. 213, 2015,

5. Precautionary measures

a. In attacks

P I, Art. 57(4)

^ CASES AND DOCUMENTS

- San Remo Manual on International Law Applicable to Armed Conflicts at Sea [Paras 74 and 75]
- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 20, 30-41]

a. Against the effects of attacks

^ CASES AND DOCUMENTS

- San Remo Manual on International Law Applicable to Armed Conflicts at Sea [Paras 72, 73, 76 and 77]
- HPCR, Manual on International Law Applicable to Air and Missile Warfare [Rules 42-46]

^ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- SASSOLI, Marco et QUINTIN, Anne. "Active and passive precautions in air and missile warfare", in *IYHR*, Vol. 44, 2014, pp. 69-123.

Further reading:

- ROSÉN Frederik, "Extremely Stealthy and Incredibly Close: Drones, Control and Legal Responsibility", in *Journal of Conflict & Security Law*, Vol. 19, No. 1, Spring 2014, pp. 113-131.

VII. The status and treatment of victims on board aircraft

Analogous to the status and treatment of war victims at sea, see supra, Naval Warfare, VII. The status and treatment of war victims at sea.

VIII. Drones

Due to the increase of new technologies and their use as war weapons, including drones may be relevant.

▲ SPECIFIC BIBLIOGRAPHY

Suggested reading:

- CASEY-MASLEN Stuart, "Pandora's Box?: Drone Strikes Under Jus ad Bellum, Jus in Bello, and International Human Rights Law", in *International Review of the Red Cross*, Vol. 94, No. 886, Summer 2012, pp. 597-625.
- ENEMARK Christian, *Armed Drones and the Ethics of War: Military Virtue in a Post-Heroic Age*, 1st Edition, London/New York, Routledge, 2013.
- GALLAIS Sébastien, *Cadre juridique de l'emploi des drones aux combats*, coll. Sorbonne Défense, Paris, L'Harmattan, 2013.
- PEJIC, Jelena, "Extraterritorial targeting by means of armed drones: Some legal implications", *International Review of the Red Cross*, Vol. 96, No. 893 (2014): 67-106.
- ROSÉN Frederik, "Extremely Stealthy and Incredibly Close: Drones, Control and Legal Responsibility", in *Journal of Conflict and Security Law*, Vol. 19, No. 1, Spring 2014, pp. 113-131.
- SCHMITT Michael N., "Drone Attacks Under the Jus ad Bellum and Jus in Bello: Clearing the 'Fog of Law' ", in *Yearbook of International Humanitarian Law*, Vol. 13, 2010, pp. 311-326.
- SCHMITT Michael N., "Unmanned combat aircraft systems and international humanitarian law: simplifying the oft benighted debate", in *Boston University International Law Journal*, Vol. 30, No. 2, 2012, pp: 595-619.

Further reading:

- BARNIDGE Robert P., "A Qualified Defense of American Drone Attacks in Northwest Pakistan Under International Humanitarian Law", in *Boston University International Law Journal*, Vol. 30, No. 2, Summer 2012, pp. 409-447.
- BRUNSTETTER Daniel & Megan BRAUN, "The Implications of Drones on the Just War Tradition", in *Ethics and International Affairs*, Vol. 25, No. 3, 2011, pp. 337-358.
- HENDERSON Ian, "Civilian Intelligence Agencies and the Use of Armed Drones", in *Yearbook of International Humanitarian Law*, Vol. 13, 2010, pp. 133-173.
- KASAIJA Phillip Apuuli, "International Humanitarian Law (IHL) and the Use of Unmanned Aerial Vehicles (UAV's) (Drones) as a Means of Warfare Against Armed Groups in Africa", in *Uganda's Paper Series on International Humanitarian Law*, Vol. 1, No. 1, August 2013, pp. 109-122.
- LEWIS Michael W, "Drones and the Boundaries of the Battlefield", in *Texas International Law Journal*, Vol. 47, No. 2, Spring 2012, pp. 293-314.
- LUBELL Noam and DEREJKO Nathan, "A Global Battlefield ? : Drones and the Geographical Scope of Armed Conflict", in *Journal of International Criminal Justice*, Vol. 11, No. 1, March 2013, pp. 65-88.

- WHITE, Nigel D. and DAVIES-BRIGHT Lydia, 'Drone Strikes: A Remote Form of Self-Defence?' in OHLIN Jens David (ed) *Research Handbook on Remote Warfare* (Edward Elgar Publishing 2017) 213-245

Footnotes

- [1] Air weapons are said to represent 90% of the total trade in war materials; see GUIZÁNDEZ GOMEZ Javier, "The Law of Air Warfare", *IRRC*, No. 323, June 1998, pp. 347-362.
<http://www.icrc.org/eng/review>
- [2] Declaration (XIV) Prohibiting the Discharge of Projectiles and Explosives from Balloons, The Hague, 18 October 1907, available at <http://www.icrc.org/ihl>
- [3] Rules concerning the Control of Wireless Telegraphy in Time of War and Air Warfare, drafted by a Commission of Jurists at the Hague, December 1922 – February 1923, available at <http://www.icrc.org/ihl>
- [4] Protection of civilian populations against bombing from the air in case of war, Resolution adopted on 30 September 1938, in SCHINDLER Dietrich & TOMAN Jiri, *The Laws of Armed Conflicts*, 4th ed., Leiden/Boston, M. Nijhoff, 2004, pp. 329-330
- [5] For details of these conventions, see the website of the International Civil Aviation Organization, <http://www.icao.int> and the United Nations website devoted to terrorism, <http://www.un.org/terrorism>
- [6] See HPCR, *Manual on International Law Applicable to Air and Missile Warfare*
- [7] See *supra*, *Naval Warfare*; and *San Remo Manual on International Law Applicable to Armed Conflicts at Sea*
- [8] See *supra*, *Naval Warfare*
- [9] See HPCR, *Manual on International Law Applicable to Air and Missile Warfare* [Rules 47-57]
- [10] *Ibid.*, Rules 58-63
- [11] *Ibid.*, Rules 58-63
- [12] *Ibid.*, Rules 105-110
- [13] *Ibid.*, Rules 128-131
- [14] See *The Hague Regulations*
- [15] See *Conventions on the Protection of Cultural Property*
- [16] Compare, e.g., Arts 35(3) and 55 on the natural environment with HPCR, *Manual on International Law Applicable to Air and Missile Warfare* [Rules 88 and 89]
- [17] See, for example, *ibid.*, Rules 22-24 on military objectives
- [18] See *Federal Republic of Yugoslavia, NATO Intervention*
- [19] See *United States/United Kingdom, Report on the Conduct of the Persian Gulf War*
- [20] See *Official Records of the Diplomatic Conference on the Reaffirmation and Development of International Humanitarian Law applicable in Armed Conflicts*, Geneva (1974-1977), Bern, 1978, vol. XIV, pp. 13-25, 85, and in particular, *ibid.*, vol. XV, p. 255, a working group reporting to the competent committee of the conference that it was unanimously of the view that the rules should at least cover military operations from the air against persons and objects on land.

- [21] Oppenheim, *International Law – A Treatise*, 7th edition, edited by Hersch Lauterpacht, Vol. II, Disputes, War and Neutrality, London, 1952, p. 520. A US Air Force Pamphlet stipulates that “[t]he law of armed conflict affecting aerial operations is not entirely codified. Therefore, the law applicable to air warfare must be derived from general principles, extrapolated from the law affecting land and sea warfare, or derived from other sources including the practice of states reflected in a wide variety of sources” (US Air Force Pamphlet 110-31, 19 November 1976, para. 1-3 (c), pp. 1-7).
- [22] See GC I, Arts 36-37; GC II, Arts 39-40; GC IV, Art. 22; P I, Arts 24-31
- [23] See HPCR, *Manual on International Law Applicable to Air and Missile Warfare* [Rules 71-87]
- [24] Oppenheim/Lauterpacht, *supra* note 309
- [25] See Arts 33 and 34 of the Hague Rules, *supra* note 292
- [26] *Ibid.*, Arts 30, 35, 50, and 51
- [27] See HPCR, *Manual on International Law Applicable to Air and Missile Warfare*, Rules 27 (on enemy civilian aircraft), 63 and 68 (on civilian airliners), and 174 (on neutral civilian aircraft); and San Remo *Manual on International Law Applicable to Armed Conflicts at Sea*, Rules 53-58, for medical aircraft, civilian airliners and aircraft granted safe conduct, Rules 62 and 63 for civil aircraft, and Rule 70, for neutral civil aircraft.
- [28] See Principle of Precautionary Measures in Conduct of Hostilities
- [29] See in this sense the report of the competent committee of the Diplomatic Conference, *Official Records*, *supra* note 304, vol. XV, p. 261, para. 99
- [30] See HPCR, *Manual on International Law Applicable to Air and Missile Warfare*, Rules 37, 38, 40, 41, 55, 57 and 70; and San Remo *Manual on International Law Applicable to Armed Conflicts at Sea*, Rules 72-77.
- [31] See HPCR, *Manual on International Law Applicable to Air and Missile Warfare*, Rules 134-146; and San Remo *Manual on International Law Applicable to Armed Conflicts at Sea*, Rules 125-158